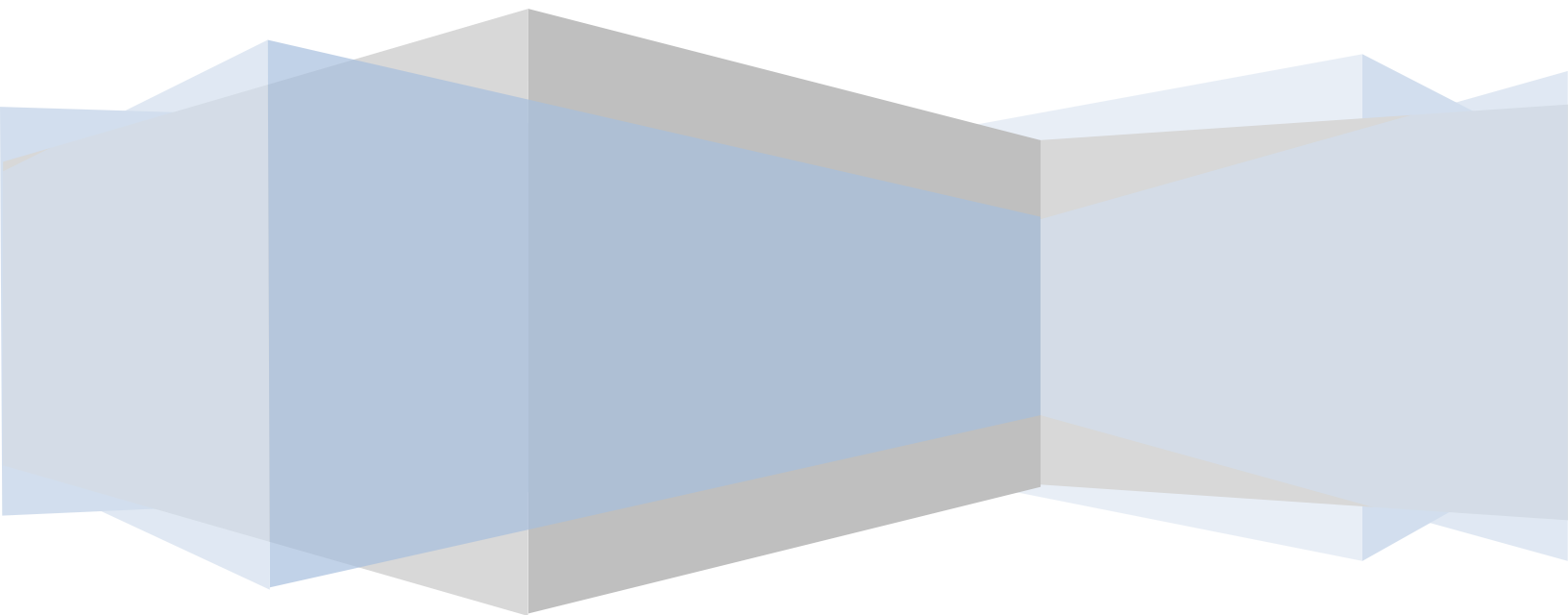


# WFYI Project Management Pipeline Tool

EPICS Fall 2014

Eric Sanders - Tanaka Mapondera - Jon Hennette



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## Introduction

WFYI Public Media, Indianapolis' PBS and NPR member station, is in need of a system to act as a central collection point and tracking tool for the varied types of work and projects we do. These projects vary from community events attended by as many as 60,000 people to a TV program broadcast premiere. Currently, WFYI has a wide range of ways to keep track of projects. Some personnel use something as sophisticated as applications on their computers, while others tools as simple as sticky notes.

This project management tool will be used by the IT department at WFYI with hopes that it will later expand to other departments. The EPICS Team at Butler University assisted in finding a tool that met their requirements and assisted in developing those requirements. The team consisted of Eric Sanders, Tanaka Mapondera, and Jon Thennette. The overall approach the team took was to schedule regular meetings to further develop the requirements as well as research various tools to present to WFYI.

The report is organized into six chapters. The first chapter outlines the requirements. This includes a brief overview of the initial requirements as well as additional requirements that were decided upon through interviews and meetings. The second chapter gives a brief overview of the possible solutions. Chapter three gives an overview of our open source solutions. Chapter four gives an overview of a different solution which is an application called AVA. Chapter five describes how we chose the final solution. Chapter six explains the future work that needs to be done.

## Requirements

### Project Management Tool Requested Requirements/Components

The Project Management Tool should have the following major components:

- Information collection/management interface
- A display interface to show projects in various formats
- Task assignment and completion tracking for specific components of a project
- Project reporting components

*For further explanation of these requirements/components see the Project Management Pipeline Tool Requirements in the appendix section*

### Further Requirements

Through further meetings and coordination, the EPICS Team was able to develop further requirements for the Project Management Tool. The EPICS Team met with WFYI three times throughout the semester. We met October 1<sup>st</sup>, November 12<sup>th</sup>, and November 19<sup>th</sup>. Through these meetings we added the following to our list of requirements:

- WFYI does not want to purchase a tool
- WFYI owns Microsoft SharePoint and would like to use it more
- WFYI has tried using Microsoft Project but felt it was too cumbersome
- WFYI is open to using an open source project
- WFYI is open to having future teams develop the tool
- WFYI has no immediate deadline for this tool
- WFYI wants to use it for the IT department but expand to other departments at a later time
- Project Management at WFYI is not currently organized
  - Some people use applications, others use pencil and paper
- WFYI would like for the tool to connect to Microsoft Outlook



## Solutions Overview

After gathering the initial requirements, the EPICS team explored various tools for Project Management. The following is a list of solutions for the Project Management Tool.

- AVA Project Management Application
- OpenProject
- LibrePlan
- ProjectLibre
- EPICS Team builds the application

Each of these solutions were explored and presented to the WFYI department during a meeting. From that meeting we concluded that the best course was for WFYI to use AVA. In the next chapters, we will explore some of the other solutions in depth.

## Open Source Solutions

### OpenProject

OpenProject was one of the solutions that we explored. OpenProject is a web-based software application intended for project collaboration and is the open source competitor to Microsoft Project. It meets all of the requirements given to us by WFYI. It allows for Information Collection by having various users with various roles create projects, tasks, and much more. It allows the user to display tasks and projects in various formats such as a list view and a calendar. OpenProject has completion tracking as well as the tardiness for a task or project.

While OpenProject meets all of the requirements given to us by WFYI, it is very difficult to navigate and use. This application would require a dedicated server to run on as well as multiple briefing and training sessions.

### ProjectLibre

ProjectLibre is an easy to use project management application. It is open source and is a free download. Installation is easy and does not require a dedicated server to run on. It meets many of the requirements given to us by WFYI. A user can easily create and open projects as well as tasks. ProjectLibre also has a calendar feature as well as a feature to display duration and cost. ProjectLibre shows a lot of promise and is still being actively developed. However, there are some concerns that make it a non-contender for the WFYI Project Management Tool.

While ProjectLibre does show much promise, it currently is intended for a single user. There is no apparent way for ProjectLibre to connect with other people. This would mean that projects and tasks could not be shared throughout the IT department. Because of this, it does not meet our requirements.

### LibrePlan

LibrePlan is a collaborative tool to help plan, monitor and control various projects. LibrePlan is a free open source program. It has a rich web interface and provides real time planning. Users are able to create projects and use its elaborate gantt chart in a graphical and intuitive way. Users are able to track the hours devoted to a project as well as measure the progress of a project. In addition, they can also calculate the cost of a project. Users have the ability to monitor and adapt projects in a natural way due to LibrePlan's collaborative, web

based, and multi-project approach. Information between employees, customers, and other companies can be easily shared.

LibrePlan satisfies all of the requirements. It has many components, and is actively developed. However, the tool is not lightweight. The many components help satisfy the requirements, but there are also many components not required for WFYI's Project Management Tool. The tool is complicated and would require numerous hours of training before use. The tool would also require a dedicated server to run on.

## AVA Project Management Application

AVA Project Management Application is an application within Microsoft SharePoint. Through our further interviews, meetings, and emails we learned that WFYI would prefer to use SharePoint more, and that an application within SharePoint would be preferred. Therefore AVA, being an application within SharePoint, is very beneficial. In addition, it also meets the major requirements/components. The following sections describe the roles of AVA, how AVA meets the specified requirements, and cases where AVA does not meet the requirements or is limited.

### AVA Roles

AVA allows for three roles, an IT-Engineer, a Project Manager, and an Engineer. An IT-Engineer is the top level and they are responsible for the administrative side of AVA. They can create projects as well as assign project managers, and assign engineers to projects. In addition to this, they can also create and edit tasks as well as upload documents. They also manage the user roles of every use. The second role is the Project Manager. The Project Manager is very similar to IT-Engineer. They can edit projects, but cannot create a project. They can create and edit tasks as well as upload documents. The Engineer is the lowest level. The Engineer can edit the completion percentage of a task and can view documents.

These roles are very limiting to how WFYI would like to use AVA. It would be more convenient if AVA allowed for a more flexible role system in which the users of the product could define the roles.

### Information Collection/Management Interface

As a tool with an information collection/management interface, AVA is able to:

- Create projects with descriptions and other key pieces
- Assign ownership to a project as well as other roles
- Upload documents and other artifacts
- Create tasks for a project

However, AVA is also limited in the following ways:

- Not everyone can upload a document as specified in the requirements
- Task flexibility is limited

## Display Interface to Show Projects in Various Formats

As a tool that allows a display interface to show projects in various formats, AVA has a:

- Breakdown of projects and tasks on the homepage or on the reports page
- List view calendar on the homepage
- Full calendar that offers a view of every task for any given project in a month view
  - Also can link to the full task information

AVA nearly meets all of the requirements for this major component; however, it cannot link to the full project information from the calendar. It can only link to the task information.

## Task Assignment and Completion Tracking for Specific Components of a Project

As a tool that allows for task assignment and completion tracking for specific components of a project, AVA is able to:

- Assign Project Managers
- Assign Engineers to a project
- Assign Engineers to a task
- Keep record of task and project completion

However, AVA is limited in the fact that it cannot send a notification to Project Managers or Engineers. This requirement was decided upon after meetings and interviews.

## Project Reporting Components

As a tool with project reporting components, AVA is able to report on:

- The completion percentage of a project
- The Engineers for a project

However, AVA is limited with its reporting. There are very few metrics it reports. There is also a defect in the reporting. The defect is in the task reports. It currently shows a breakdown of the tasks based on their importance; however, the report does not show anything. Once more than 10 tasks are added, the task report page shows the metrics in an incorrect order.

## AVA Conclusion

AVA is a good fit as WFYI's Project Management Tool. It does not meet all the requirements, but it does have the major components. What makes AVA a good choice is that it is lightweight, easy to use, requires little training, is a SharePoint application, and is free. However, it also has a few negative components. AVA's user roles provide very little flexibility, there is little documentation on the application, it has not been widely used or reviewed, and it is still the first version of the application which could mean it is not being actively developed.

## Choosing the Tool for the Job

After meeting with the IT department at WFYI, the IT department and EPICS team came to an agreement on the right tool for the job. We felt that AVA, while not satisfying all requirements, contained the major components for the Project Management Tool. AVA was ultimately chosen because it is light weight, easy to use, meets the major components, is free, and is a SharePoint application. The open source projects had many more features to them, but they would require more training and more resources. Therefore, they were dismissed as candidates. Having the EPIC's team build the application was also dismissed because of the length of time it would take to build the application.

## Future Work

There is still future work to be done with AVA. The EPICS team will visit the WFYI station to give a brief demonstration AVA as well as a brief training course. There will also need to be more testing done on AVA as the EPICS team did not fully test AVA. The WFYI team will also have to setup SharePoint accounts and AVA user roles to help manage the projects. Lastly, projects and tasks will need to begin being migrated to AVA.



## **WEEKLY STATUS REPORT (WSR)**

[10-6-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [10-6-2014]

### **I. RED FLAGS:**

- Having no access to Microsoft SharePoint would be problematic. Not having access to it would mean that we could not properly evaluate the product.

### **II. ISSUES:**

- The team was recently formed with the addition of Eric.
- Chris Bowman, our WFYI contact, did not respond to e-mails for over a week due to an issue with a spam filter.

### **III. ACCOMPLISHMENTS (dates):**

10-1-2014

- Met with Chris Bowman for an initial meeting.
- Requirements were clarified.

### **IV. ACTION ITEMS FOR FOLLOWING WEEK (dates):**

- Get Microsoft SharePoint running on a local machine (Eric)
- Review open source projects (Team)

## **WEEKLY STATUS REPORT (WSR)**

[10-13-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [10-13-2014]

### **I. RED FLAGS:**

### **II. ISSUES:**

- We still do not have access to Microsoft SharePoint, however, Chris has been contacted about it and he is attempting to resolve this issue by giving us a copy to use on WFYI's server.

### **III. ACCOMPLISHMENTS (dates):**

10-8-2014

- Contacted Chris to get a copy of Microsoft SharePoint. He will respond later in the week.

10-10-2014

- The following open source projects were assigned:
  - ProjectLibre: Eric
  - LibrePlan: Tanaka
  - OpenProject: JT
- Small report for each project is expected.

### **IV. ACTION ITEMS FOR FOLLOWING WEEK (dates):**

- Take action depending on Chris's response.
- ProjectLibre (Eric)
- LibrePlan (Tanaka)
- OpenProject (JT)
- Assign new open source projects if needed.

**WEEKLY STATUS REPORT (WSR)**  
[10-20-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [10-20-2014]

**I. RED FLAGS:**

**II. ISSUES:**

**III. ACCOMPLISHMENTS (dates):**

10-17-2014

- Chris Bowman was able to give us access to Microsoft SharePoint to use. It is set up the WFYI Microsoft 365 server. We are able to access it remotely.

10-19-2014

- Open Source Project Reports were given.

**IV. ACTION ITEMS FOR FOLLOWING WEEK :**

- Access Microsoft SharePoint
- Become familiar with SharePoint
- Do use-case scenarios in SharePoint
- Set up an appointment with Chris

## **WEEKLY STATUS REPORT (WSR)**

[10-27-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [10-27-2014]

### **I. RED FLAGS:**

### **II. ISSUES:**

### **III. ACCOMPLISHMENTS (dates):**

10-22-2014

- Set up a time to meet with Chris to discuss the open source projects and SharePoint.

10-24-2014

- SharePoint was assigned to the team along with a tutorial to follow for Project Management.

### **IV. ACTION ITEMS FOR FOLLOWING WEEK :**

- Meet and discuss SharePoint
- Do use-case scenarios in SharePoint

## **WEEKLY STATUS REPORT (WSR)**

[11-3-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [11-3-2014]

**I. RED FLAGS:**

**II. ISSUES:**

**III. ACCOMPLISHMENTS (dates):**

10-29-2014

- The team met to go over SharePoint. During this meeting, we found two possible applications that can be used within SharePoint:
  - AVA Project Management App
  - Velocity Project Management

11-3-2014

- Setup an appointment to meet with Chris to discuss our recent work with SharePoint at the WFYI Station.

**IV. ACTION ITEMS FOR FOLLOWING WEEK :**

- Meet with Chris

## **WEEKLY STATUS REPORT (WSR)**

[11-10-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [11-10-2014]

### **I. RED FLAGS:**

### **II. ISSUES:**

- There was a mix up on the date of our meeting. This has been resolved and the meeting date and time confirmed.

### **III. ACCOMPLISHMENTS (dates):**

11-5-2014

- The team reviewed OpenProject and placed it as our lead candidate for a project management tool.

### **IV. ACTION ITEMS FOR FOLLOWING WEEK :**

- Meet with Chris on 11/13/2014 and decide on a project tool

## **WEEKLY STATUS REPORT (WSR)**

[11-17-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [11-17-2014]

### **I. RED FLAGS:**

### **II. ISSUES:**

- The EPICS team did not have full access to SharePoint which prohibited us from fully using AVA Project Management Tool in SharePoint.

### **III. ACCOMPLISHMENTS (dates):**

11-12-2014

- The EPICS team met with Chris Bowman and members of his department to discuss the project management tools. We decided to focus our efforts on SharePoint.

11-13-2014

- A meeting for 11/19/2014 was confirmed. We will discuss getting SharePoint set up for a project management tool.

### **IV. ACTION ITEMS FOR FOLLOWING WEEK :**

- Meet with Chris on 11/19/2014 and got necessary privileges for AVA.

## **WEEKLY STATUS REPORT (WSR)**

[12-1-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [12-1-2014]

**I. RED FLAGS:**

**II. ISSUES:**

**III. ACCOMPLISHMENTS (dates):**

11-19-2014

- The EPICS team began to explore AVA with the new permissions
- \*NOTE\* Less work was done over Thanksgiving Break

**IV. ACTION ITEMS FOR FOLLOWING WEEK :**

- Implement use cases for AVA
- Contact Chris above future of the Project Management Tool



## **WEEKLY STATUS REPORT (WSR)**

[12-8-2014]

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**TO:** Dr. Panos Linos  
**FROM:** Eric Sanders  
**SUBJECT:** Status report for week [12-8-2014]

**I. RED FLAGS:**

**II. ISSUES:**

**III. ACCOMPLISHMENTS (dates):**

12-3-2014

- The EPICS Team contacted Obi (Director of IT at WFYI) for additional WFYI SharePoint accounts to further test AVA.

12-5-2014

- Wine Fest Project added to SharePoint along with tasks for the project.
- EPICS team began to work on final presentation.

12-8-2014

- The EPICS Team was granted two additional SharePoint accounts for further testing.

**IV. ACTION ITEMS FOR FOLLOWING WEEK :**

**TO:** Eric  
**FROM:** Tanaka  
**SUBJECT:** Report for LibrePlan

**I. POSITIVES:**

- Does a good job of tracking and displaying the progress of a particular project
- Can display the various tasks assigned to a project
- Modern design
- Web-based
- Allows for administrators as well as team workers who are assigned to a project
- Easily share data within or between companies
- Built in reporting for tasks and projects
- Let's you keep track of your resources and lets you dictate how you like to distribute them

**II. RED FLAGS:**

- Confusing to set up
- Require training.
- Has features that are unnecessary

**III. FINAL THOUGHTS:**

- LibrePlan has many positives and a few good qualities but would require some work to get it set up. It would also require training

**IV. PROMISING (Yes/No/Other):**

- Yes

**OpenProject**  
[10/19/2014]

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**TO:** Eric  
**FROM:** JT  
**SUBJECT:** Report for OpenProject

**I. POSITIVES:**

- Allows for “Assignee” and for “Manager”
- Shows completion percentage
- Shows a budget for how much was spent
- Hierarchical structure for users
- Can set up meetings through the program
- Shows “related” work packages

**II. RED FLAGS:**

- Still in development
- Complex

**III. FINAL THOUGHTS:**

- This application could be promising, but it needs to be explored more.

**IV. PROMISING (Yes/No/Other):**

- Yes

**ProjectLibre**  
[10/17/2014]

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**TO:** Eric  
**FROM:** Eric  
**SUBJECT:** Report for ProjectLibre

**I. POSITIVES:**

- Easy to use
- East to install
- Easily create and open projects
- Create Manager for projects
- Has a calendar feature
- Features such as duration and cost.

**II. RED FLAGS:**

- No clear way to stay connected with other users
- Use for a single user, not a team
- No way to add users to a project
- Does not meet out requirements

**III. FINAL THOUGHTS:**

- This application does not meet our requirements and therefore should not be explored.

**IV. PROMISING (Yes/No/Other):**

- **No**

# WFYI Project Pipeline Tool

Notes following initial meeting with WFYI Contact, Chris Bowman.

- Don't want to purchase any software
- Own SharePoint
- Open to using open source project (modified/unmodified)
- Open to developing the project
- No deadline
- Want to use it for the IT department and eventually the entire building
- Project management is currently a mess
- Doesn't have to be web-based

## Meeting Outline November 12th

### Agenda:

1. Objective
2. Solutions
  - a. EPICS team build from ground up
  - b. Use Open Source Project
    - i. LibrePlan
    - ii. OpenProject
  - c. Use SharePoint
    - i. AVA Project Management App
3. Tools
  - a. SharePoint
    - i. AVA Project Management Tool
      1. Strengths
        - a. Already in place
        - b. Options to expand
      2. Issues
        - a. Not able to currently use the application
  - b. OpenProject
    - i. Strengths
      1. Meets the objective
      2. Easy to add users with privileges
      3. Web based
    - ii. Weaknesses
      1. Not currently in place
      2. Includes many features that are out of the scope of the objective
  - c. LibrePlan
    - i. Strengths
      1. Meets the objective
      2. Web based
    - ii. Weaknesses
      1. Not currently in place
      2. Difficult to set up
4. Conclusion
  - a. The tool to target
  - b. Use cases
5. Questions/Discussion

**Objective:** A system that will act as a central collection point and tracking tool for the varied types of work and projects done at WFYI.

### Features List for the System:

1. Information Collection/Management Interface
2. Display interface to show projects in various formats
3. Task assignment and completion tracking for specific components of a project
4. Project reporting components

## Meeting Outline November 17<sup>th</sup>, 2014

1. Introduction (Chirs B.)
2. Project Pipeline Tool Introduction (Chris B.)
3. WFYI Director of IT (Obi)
  - a. SharePoint Experience thus far
    - i. What SharePoint has been used for
  - b. Current plans for SharePoint
    - i. Requested SharePoint uses
  - c. Current status/work being done
4. EPICS (EPICS team)
  - a. SharePoint Experience thus far
    - i. Research re-cap
    - ii. Have been able to do \_\_\_\_\_
    - iii. Haven't been able to do \_\_\_\_\_
5. Needs for Project Pipeline tool (all)
  - a. Active Directory/Exchange connection?
  - b. MS Project setup/installation?
  - c. EPICS user(s) rights change?
    - i. Security for rest of WFYI network...
6. Next Steps? (all)

# WFYI Project Pipeline Tool

EPICS FALL 2014



# WFYI EPICS TEAM

---

- Eric Sanders
  - Team Leader
  - Senior
  - Music Performance (Percussion)
  - Software Engineering
- Tanaka Mapondera
  - Team Member
  - Sophomore
  - Computer Science
- Jon Hennette (JT)
  - Team Member
  - Senior
  - Computer Engineering

- ◉ Indiana's largest PBS and NPR member station.
- ◉ Mission:
  - To inspire the best in our community by sharing stories and connecting people
- ◉ EPIC's Team Contact
  - Chris Bowman
    - WFYI Internet Projects Manager

# Initial Requirements

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- Project Management Pipeline Tool
  - Information Collection/Management Interface
  - Display interface to show projects in various formats
  - Task assignment and completion tracking for specific components of a project
  - Project reporting components

# Further Requirements

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- Requirements gained through interviews
  - No Cost
  - Own Microsoft SharePoint
  - Tried Microsoft Project but was too complex
  - Open to using an open source project
  - Open to developing the project
  - No Immediate deadline
  - Want to use it for the IT department but expand later on
  - Project management is not currently organized
  - Connect to outlook

# Solutions

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- ◎ SharePoint (Web Application Framework)
  - AVA Project Management Application
- ◎ Open Source
  - OpenProject - JT
  - LibrePlan - Tanaka
- ◎ EPIC's Team builds SharePoint Application

# OpenProject

---

- ◉ Open Source
- ◉ Microsoft Project competitor
- ◉ Widely used
- ◉ Actively developed



9



OpenProject

★ My page

📁 Projects

📁 Modules

search ...

?

Help

OpenProject Admin

⏪

🏠

Demo Project

Work packages

☰ Overview

✓ Activity

📅 Roadmap

📁 Work packages

➕ New work package

📊 Summary

★ Assigned to me

★ Bugs

★ Prio high

★ User Stories

★ Tasks

📅 Timelines

📋 Backlogs

📅 Calendar

🔊 News

📖 Wiki

📊 Status reportings

🔗 Dependencies

💬 Meetings

💰 Budgets

⚙️ Project settings

TASKS

+ Work packages

Filter

✓	#	TYPE	STATUS	PRIORITY	SUBJECT	ASSIGNEE	RESPONSIBLE	DUE DATE	ESTIMATED TIME	REMAINING HOURS
📁 OpenProject Admin (1)										
☐	26	Task	New	Normal	Buy the OpenProject team a lunch	OpenProject Admin			2	2
📁 - (4)										
☐	28	Task	New	Normal	Coffee machine is broken					
☐	27	Task	New	Normal	Buy the OpenProject team a beer				1	1
☐	25	Task	Resolved	Normal	Copy the contracts					
☐	24	Task	In Progress	Normal	Make coffee				4	4

10

# OpenProject Conclusions

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## ● Pros

- Free
- Hierarchical structure for users
- Can set up meetings through the program
- Meets requirements given by WFYI

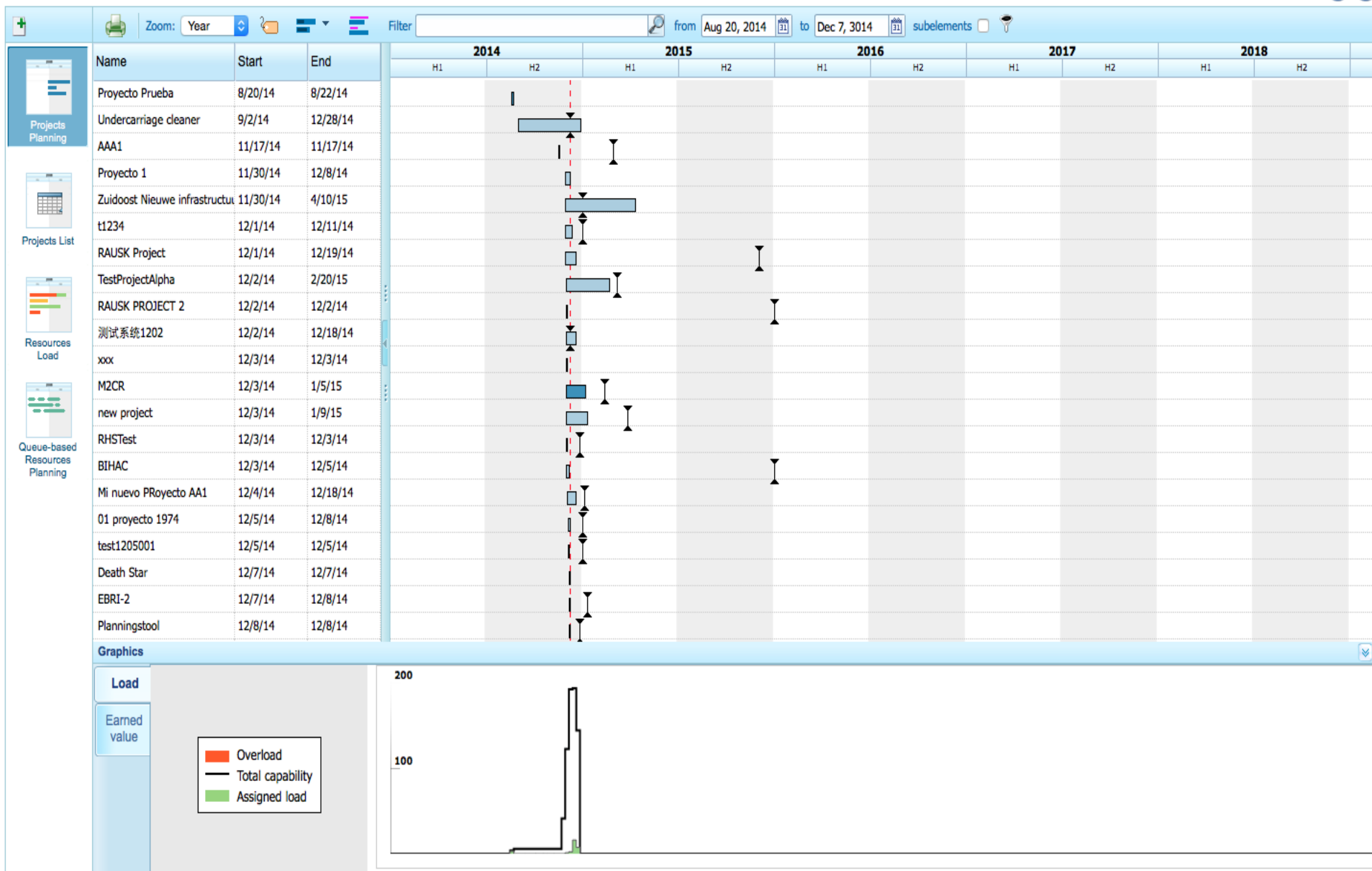
## ● Cons

- Would require training
- Very complex

# LibrePlan































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- ◉ Web Based Project Management Program/Software
- ◉ Plan
- ◉ Manage Resources
- ◉ Track Data
- ◉ Monitor & Control
- ◉ Connect
- ◉ And More



## Workers List

Filter by  Personal details  [More options](#) [Filter](#)

Surname	First name	ID	Code	Queue-based	Operations
aa	aymen	aaaaa	WORKER0141	no	 
Baker	Beth	BB	WORKER0098	no	 
Bek	Peter	SEBEKPE	WORKER0097	no	 
Delta	Deliah	DD	WORKER0100	no	 
Gomez	Stefanny	1234	WORKER0076	no	 
Gomez	Carlos	123445	WORKER0084	no	 
Leurs	Gerard	1002	WORKER0073	yes	 
LN	MT	2001	WORKER0136	no	 
LN	MS	2002	WORKER0137	no	 
LN	TU	2003	WORKER0138	no	 
Ln	ZS	2004	WORKER0139	no	 
LN	IC	2005	WORKER0140	no	 
Patiño	Alejandra	12345	WORKER0078	no	 
Prezime	Ada	AP	WORKER0103	no	 
RADNIK 1	RAUSK	RAUSK1	WORKER0087	no	 

1 / 2

[ 1 - 15 / 19 ]

[Create](#)

Project Status Report

Project

Filter by labels

Add

Type	Name	Operations
------	------	------------

Filter by criteria

Add

Type	Name	Operations
------	------	------------

Format

Output format:

HTML

Show

Remember that this is a demo installation and all data will be periodically deleted.

## » Main Settings















### Main preferences Entity sequences LDAP configuration Connectors

Company code	<input type="text" value="42"/>	
Default calendar	<input type="text" value="Standard"/>	
Hours type for personal timesheets	<input type="text" value="Projects Manager"/>	
Personal timesheets periodicity	<input type="text" value="Monthly"/>	
Show progress	<input type="text" value="Progress with critical path tasks by duration"/>	
Company logo URL	<input type="text"/>	
Currency	<input type="text" value="NOK - kr"/>	
Autocomplete login form	<input checked="" type="checkbox"/> Enable/Disable	
Check for updates	<input checked="" type="checkbox"/> Show a notification when new LibrePlan versions are released <input type="checkbox"/> Help the project developers to collect information about which LibrePlan version you are using	
Generate code for	<input checked="" type="checkbox"/> Criteria	<input checked="" type="checkbox"/> Labels
	<input checked="" type="checkbox"/> Timesheets	<input checked="" type="checkbox"/> Resources
	<input checked="" type="checkbox"/> Hours Types	<input checked="" type="checkbox"/> Material categories
	<input checked="" type="checkbox"/> Material Units	<input checked="" type="checkbox"/> Calendar
	<input checked="" type="checkbox"/> Timesheet templates	<input checked="" type="checkbox"/> Calendar exception days
	<input checked="" type="checkbox"/> Cost category	<input checked="" type="checkbox"/> Expense sheets
Perspectives	<input checked="" type="checkbox"/> MonteCarlo method	
Seconds planning warning	<input type="text" value="30"/> Defines the time since last saving operation at project planning perspectives after which a warning is raised on leaving. Set to 0 in order to disable the warning.	

Remember that this is a demo installation and all data will be periodically deleted.

Remember that this is a demo installation and all data will be periodically deleted.

Companies List

Name	Company ID		Subcontractor	Associated user	Operations
,jbvh	dsfgh	<input type="checkbox"/>	<input type="checkbox"/>	---	 
Eurogrip	545545545	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	 
OPCINA BIHAC	OB	<input checked="" type="checkbox"/>	<input type="checkbox"/>	admin	 
Otra empresa	111111111	<input type="checkbox"/>	<input checked="" type="checkbox"/>	---	 
tewtew	323	<input checked="" type="checkbox"/>	<input type="checkbox"/>	admin_en	 
Zuidoost	ZO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	 
测评公司	ceping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	---	 

Create

Remember that this is a demo installation and all data will be periodically deleted.

Remember that this is a demo installation and all data will be periodically deleted.



# LibrePlan Conclusions

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## ● Pros

- It more than satisfied all the requirements that were given to us by WFYI
- Its free

## ● Cons

- Too many components
- Very complicated to setup and operate
- Would need a server to run on

# AVA Project Management Application

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- ◉ SharePoint Application
- ◉ Create Projects
- ◉ Create Tasks
- ◉ Various Views
- ◉ Reports
  - Task and/or Project completion percentage
- ◉ User roles

# AVA Roles

---

- IT-Engineer
  - Top Level
  - Create Projects
    - Assign Project Manager
    - Assign Engineer
  - Create/Edit Tasks
  - Upload Documents
- Project Manager
  - Create/Edit Tasks
  - Edit Projects
    - Limited
    - Can change Engineers assigned
  - Upload Documents
- Engineer
  - Edit Tasks
    - Limited
  - View Documents

# AVA & WFYI Requirements

---

## ● Information Collection/Management Interface

- Pros:
  - Able to create projects with descriptions and other key pieces
  - Able to assign ownership to a project
  - Able to upload documents and other artifacts
  - Able to create tasks for a project
- Cons
  - Not everyone can upload a document as specified in the requirements
  - Task flexibility is limited

# Add Project



\* Required fields

Project Name\*

Wine Fest



Description\*

WEYI Wine Fest

Start Date\*

12/10/2014



End Date\*

12/24/2014



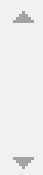
Status\*

Not Started

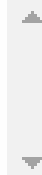


Project Manager\*

Chris Bowman



EPICS User01

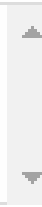


Project Member\*

Christopher Flood  
Claire Radomski  
Tricia Schug  
Russ Wadler  
Morgan Joseph



EPICS User02



Save

Cancel

# AVA & WFYI Requirements

---

- Task assignment and completion tracking for specific components of a project
  - Pros
    - Project Managers can be assigned to a project as a manager of a project
    - Engineers can be assigned to a project
    - Engineers can be assigned to a task
    - Completion tracking
  - Cons
    - No notification to Project Managers or Engineers available



Home



Projects



Administrator



Reports



## Project Details

Task

Calendar

Document Library

Risk & Issues

Project Name:

[+ Add Task](#)

Project Name	Task Name	Start Date	End Date	Assigned to	Priority	Status	Actions
Wine Fest	Send Reminder Email to Sponsors	12/23/2014	12/25/2014	EPICS User02	Medium		
Wine Fest	Signage Deadline for sponsors	12/09/2014	12/10/2014	EPICS User02	High		
Wine Fest	Change Website to say Tickets at Will	12/17/2014	12/31/2014	EPICS User02	High		

# AVA & WFYI Requirements

---

- Display interface to show projects in various formats
  - Pros
    - Home page shows basic break down of projects and tasks
      - Task completion
      - Project completion
    - Home page contains a list view calendar
    - Full calendar offers a view of every task for any given project in a month view
      - Offers linking to full task information



## Calendar

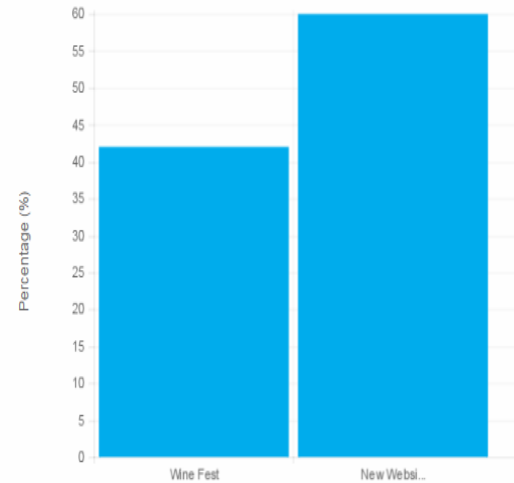
Dec 26 **New Website**  
Launch Homepage

Dec 23 **Wine Fest**  
Send Reminder Email to Sponsors

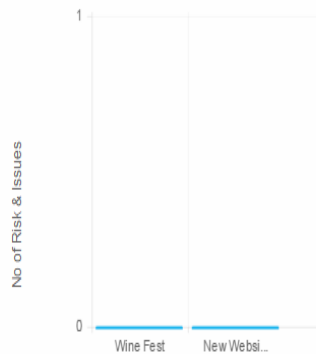
Dec 09 **Wine Fest**  
Signage Deadline for sponsors

Dec 17 **Wine Fest**  
Change Website to say Tickets at Will

## Project Based Chart



## Risk and Issues



## Task

Project Name	Task Name	Start Date	End Date	Assigned to	Priority	Status
New Website	Launch Homepage	12/26/2014	12/31/2014	EPICS User02	High	
Wine Fest	Send Reminder Email to Sponsors	12/23/2014	12/25/2014	EPICS User02	Medium	
Wine Fest	Signage Deadline for sponsors	12/09/2014	12/10/2014	EPICS User02	High	
Wine Fest	Change Website to say Tickets at Will	12/17/2014	12/31/2014	EPICS User02	High	

View All

Project Details

Task Calendar Document Library Risk & Issues

Project Name: Wine Fest

December 2014

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
		Signage Deadline for sponsors (Task Started)				
14	15	16	17	18	19	20
		Change Website to say Tickets at Will (Task Started)				
21	22	23	24	25	26	27
Change Website to say Tickets at Will (Task Started)		Send Reminder Email to Sponsors (Task Not Started)				

# AVA & WFYI Requirements

---

## ● Project reporting components

- Pros
  - Allows for reports on
    - Projects
    - Members
- Cons
  - Limited reporting
  - Task reporting has a defect



Home



Projects



Administrator



Reports

## Reports

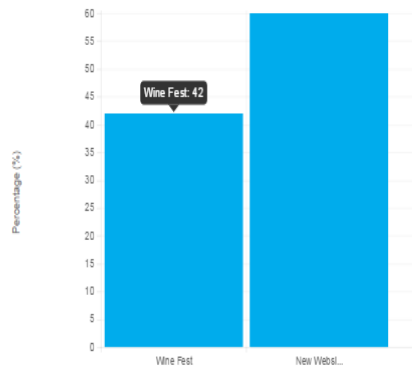
Project Based

Member Based

Task Based

Risk Based

Project Name:



# AVA Conclusions

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## ● Pro's

- Lightweight
- Easy to use
- Little to no training needed
- SharePoint Application
- Free

## ● Con's

- User role's provide little flexibility
- Little documentation
- Not widely used/reviewed
- First version (v 1.0)

# Project Management Solutions

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- ◉ LibrePlan
- ◉ OpenProject
- ◉ AVA
- ◉ EPIC's Team

# Why AVA

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- ◉ Light weight
- ◉ Easy To Use
- ◉ Meets high level requirements
- ◉ Free
- ◉ SharePoint Application

# Future Work

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- ◉ Train
- ◉ Setup Accounts
- ◉ Further Testing
- ◉ Migrate Projects/Tasks



# Experience

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- ◉ We were able to focus on other aspects of software engineering (requirements)
- ◉ Real world experience
- ◉ Importance of interviews and meetings
- ◉ Learned to be proactive when needing assistance