

Train Project

Oct 4, 2013

On Track Trainwreck

<http://>

Project managers:

Dates:

Aug 30, 2013 - Dec 13, 2013

Complete:

0%

Tasks:

112

People:

6

Transit System

Tasks

2

Name	Begin date	End date	Coordinator
Work Package 1	10/4/13	10/4/13	
STP Template	8/30/13	9/6/13	
DD Template	8/30/13	9/6/13	
CM Template	8/30/13	9/6/13	
Code Conventions	9/5/13	9/8/13	
SRS Template	8/30/13	9/19/13	
Review Bid Package	9/12/13	9/19/13	
SRS	9/20/13	10/4/13	
Create Work Schedule	9/20/13	9/27/13	
Work Package 2	11/7/13	11/7/13	
Work Package 3	12/12/13	12/12/13	
Track Model	10/7/13	12/2/13	Sarah Bunke
Track Model- design main interface	10/7/13	10/11/13	Sarah Bunke
Track Model - design Create New Track interface	10/9/13	10/11/13	Sarah Bunke
Track Model - Status Indicators	10/14/13	10/18/13	Sarah Bunke
Track Model - logic for fixing failure modes	10/16/13	10/18/13	Sarah Bunke
Track Model - logic for inputting track	10/21/13	10/22/13	Sarah Bunke
Track Model - set up MySQL for track	10/23/13	10/25/13	Sarah Bunke
Track Model- work on display of UI	10/28/13	10/29/13	Sarah Bunke
Track Model - logic for train detection circuit	10/29/13	11/2/13	Sarah Bunke, Catherine Nalesnik
Track Model - logic for track heater	11/4/13	11/8/13	Sarah Bunke
Track Model - logic for broken track	11/6/13	11/8/13	Sarah Bunke
Track Model - logic for power failure	11/11/13	11/13/13	Sarah Bunke
Track Model - logic for broken track detection circuit	11/12/13	11/15/13	Sarah Bunke

Tasks

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Name	Begin date	End date	Coordinator
Track Model - logic for signals and switch machines	11/18/13	11/20/13	Sarah Bunke
Track Model- make blocks configurable	11/20/13	11/22/13	Sarah Bunke
Track Model - logic for railway crossings	11/25/13	11/28/13	Sarah Bunke
Track Model - logic for power limitations	11/27/13	11/29/13	Sarah Bunke
Track Model - Integrate with Track Controller	12/2/13	12/2/13	Sarah Bunke
Train Controller	10/10/13	11/26/13	Brandon Bock
Create test plan and software	10/10/13	10/10/13	
Logic for Speed Control	10/10/13	10/10/13	
Logic for Receiving varying speed limits	10/13/13	10/14/13	
Logic for authority	10/16/13	10/16/13	
Logic for receiving/updating authority	10/20/13	10/20/13	
Design UI elements	10/23/13	10/23/13	
Begin coding UI; integrate implemented features	10/27/13	10/27/13	
Logic for opening/closing doors; auto mode	10/27/13	10/27/13	
Logic for turning lights on/off; auto mode	10/30/13	10/30/13	
Logic for GPS	11/3/13	11/3/13	
Logic for monitoring the train for faults	11/6/13	11/6/13	
Logic for station announcement	11/10/13	11/10/13	
Test/Debug	11/20/13	11/26/13	
Track Controller	10/7/13	12/9/13	Nicholas Schnur
Build Gui Shell	10/7/13	10/14/13	
Create Basic Class Structure	10/7/13	10/14/13	
Create Basic Class Structure	10/14/13	10/21/13	
Set-up test kit/ plan	10/14/13	10/21/13	

Tasks

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Name	Begin date	End date	Coordinator
Build test harness	10/21/13	10/28/13	
Start in Depth Component Design	10/21/13	10/28/13	
Design major track controller logic	10/28/13	11/4/13	
Connect Logic to GUI	10/28/13	11/4/13	
Think of Possible Test Cases	11/4/13	11/11/13	
Implement Test Cases	11/4/13	11/11/13	
Work on messages	11/11/13	11/18/13	
Work on interfaces for communication	11/11/13	11/18/13	
Continue with inter module communication	11/18/13	11/25/13	
Test Messages	11/18/13	11/25/13	
Test full system	12/2/13	12/9/13	
Package Simulation for Installation	12/2/13	12/9/13	
Train Model	10/7/13	12/12/13	Keith Payne
Create GUI controls	10/7/13	10/10/13	Keith Payne
Plan out necessary Interfacing requirements	10/9/13	10/11/13	Keith Payne
Design train model	10/9/13	10/11/13	Keith Payne
Design train manager	10/10/13	10/17/13	Keith Payne
Design passenger class	10/17/13	10/18/13	Keith Payne
Design passenger manager	10/17/13	10/20/13	Keith Payne
Create test plan	10/22/13	10/26/13	Keith Payne
Connect UI controls to classes	10/23/13	11/24/13	Keith Payne
Create logic for simulating passenger flow	10/28/13	10/31/13	Keith Payne
Create control logic for temperature	10/28/13	10/30/13	Keith Payne
Create logic for speed control	10/28/13	10/31/13	Keith Payne

Tasks

Name	Begin date	End date	Coordinator
Implement classes	11/3/13	11/24/13	Keith Payne
Integrate with other modules	11/22/13	11/29/13	Keith Payne
Test and debug code	11/25/13	12/12/13	Keith Payne
Moving Block Overlay	9/27/13	12/12/13	Catherine Nalesnik
Design MBO GUI	9/27/13	10/3/13	
Create individual work schedule	9/27/13	10/3/13	
Create GUI shell	10/7/13	10/10/13	
Create use cases	10/7/13	10/10/13	
Create basic class structure	10/10/13	10/17/13	
Figure out control algorithms	10/10/13	10/17/13	
Determine Scheduler logic	10/17/13	10/24/13	
Write MBO Test Plan	10/17/13	10/24/13	
Start Component Design	10/24/13	10/31/13	
Review Design	10/24/13	10/31/13	
Implement Test Cases	10/31/13	11/7/13	
Work package 2 individual deliverables	10/31/13	11/7/13	
Finish Coding MBO	11/7/13	11/11/13	
Test Module	11/7/13	11/14/13	
Work on Interfacing with other modules	11/14/13	11/20/13	
Work on System Integration	11/14/13	11/20/13	
System Testing	11/21/13	11/28/13	
Fix Bugs	11/21/13	11/28/13	
Continue System Testing	11/28/13	12/5/13	
Package system for installation	12/6/13	12/12/13	

Tasks

Name	Begin date	End date	Coordinator
CTC	10/6/13	12/12/13	Meyling Taing
Basic Outline of Code	10/6/13	10/15/13	
Organize interactions w/ other modules	10/6/13	10/10/13	
Basic GUI Prototype	10/6/13	10/10/13	
Create use cases	10/11/13	10/17/13	
Create Test Plan	10/17/13	10/24/13	
Component Prototypes	10/23/13	11/11/13	
Test individual components	10/23/13	11/11/13	
Design GUI	11/1/13	11/7/13	
Refactor Code Prototypes	11/1/13	11/15/13	
Integrate and test with other modules	11/11/13	11/28/13	
Final Code implementation	11/11/13	11/28/13	
Check edge cases in code	11/15/13	11/28/13	
System Testing	11/28/13	12/5/13	
Package system for installation	12/6/13	12/9/13	
Final Documentation	12/6/13	12/12/13	

Resources

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Name	Module
Brandon Bock	Train Controller
Sarah Bunke	Track Model
Catherine Nalesnik	Moving Block Overlay
Keith Payne	Train Model
Nicholas Schnur	Track Controller
Meyling Taing	CTC Office

Gantt Chart



