ASSIGNMENT 1

Research Papers Covered: No Silver Bullet

Tools Used: Microsoft Project 2016

Task 1:

Fredrick paper "No Silver Bullet "states that building the software is complex which leads to difficulties due to the following inherit properties of modern software.

1. **Complexity**: Describing the software entities is hard, as never two people think the same which makes the designing, testing hard for the team members to understand the code and debug.
2. **Conformation**: The complexity faced due to conformation is difficult to simplify by just redesigning the software.
3. **Changeability**: Modern software systems need to change their functionalities either during their development phase or even after deployment for betterment. These changes lead to difficulties as the existing code need to be modified without any bugs.
4. **Invisibility**: Software mostly developed is visualized by the developer and designed. This visualization leads to the communication gap.

Adobe's LiveCycle: Tool offered from Adobe and runs on amazon EC2 for designing XML forms as either HTML or PDF files.

This tool could resolve many difficulties on development of the PDF forms.

1. **XML schema** designed for binding of the fields in the form reduces the complexity and makes it flexible to change the requirement if needed. XML schema is developed through the eclipse creates a visualization which is more understandable and the data structure can appear in the XPath Builder.
2. **Embedded JavaScript:** This features helps in changing the form layout and communication between data sources more flexible to be developed and modify.
3. **Render Files:** Designed forms can be rendered to either the HTML or PDF format as needed. This makes the visualization better.
4. **Dynamic:** PDF forms designed in LiveCycle is dynamic i.e., we can change the layout w.r.t data. It is very easy to understand the functionalities though if other developer develops the form.
5. **Simple:** The tools simplify the form view to understand as different functionalities are independently defined.

Task 2:

Assumed planning requirements.

- Project Summary: Software Methods and Tools. This included the tasks on every Tuesday and Thursday of the week.
- Recurring Tasks: Assignment (On every Monday)
- Milestones: Assignment Demo 1, Assignment Demo 2, Mid Term Exam.
  Predecessors: Class discussion need to be completed before the lab.

  Either lab or class discussion need to be completed before the assignment.

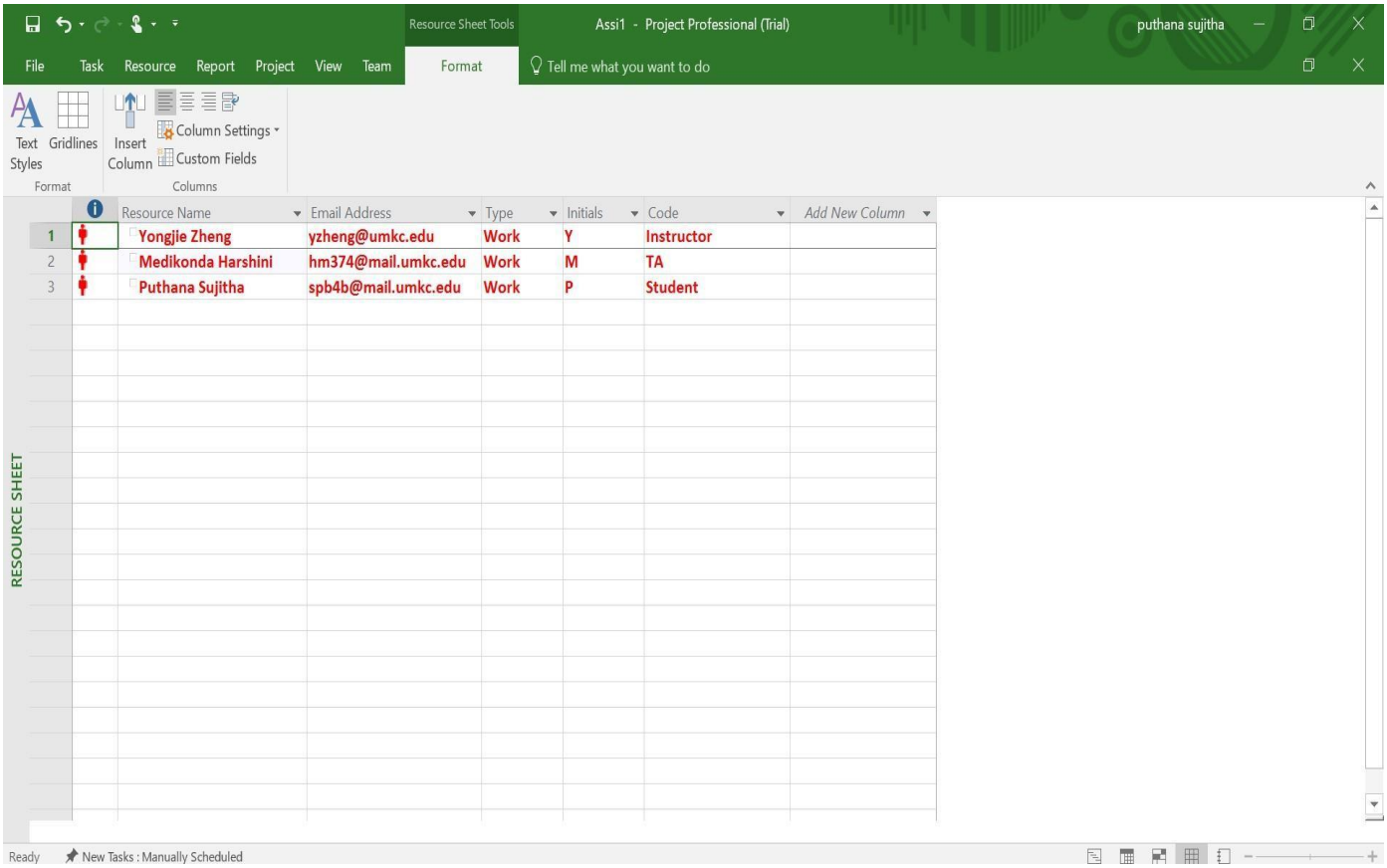
- Tasks:
  1. Initiation
  2. Planning
  3. Design
  4. Development
  5. Demo and inspection
  6. Testing
  7. Maintenance
  8. Review
  9. Assignments
- Resources: Instructor, TA, and student.

MPP file:

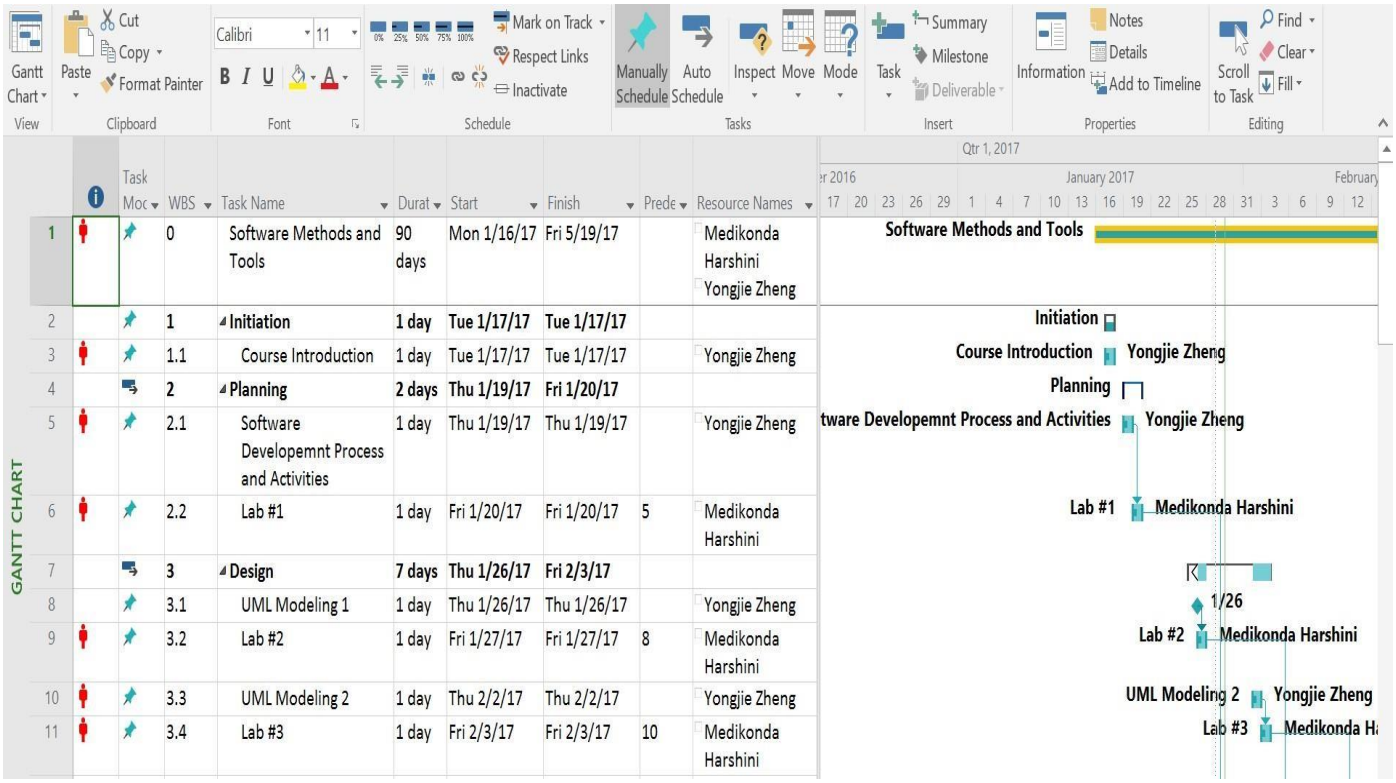
Assi1.mpp

Screenshots:

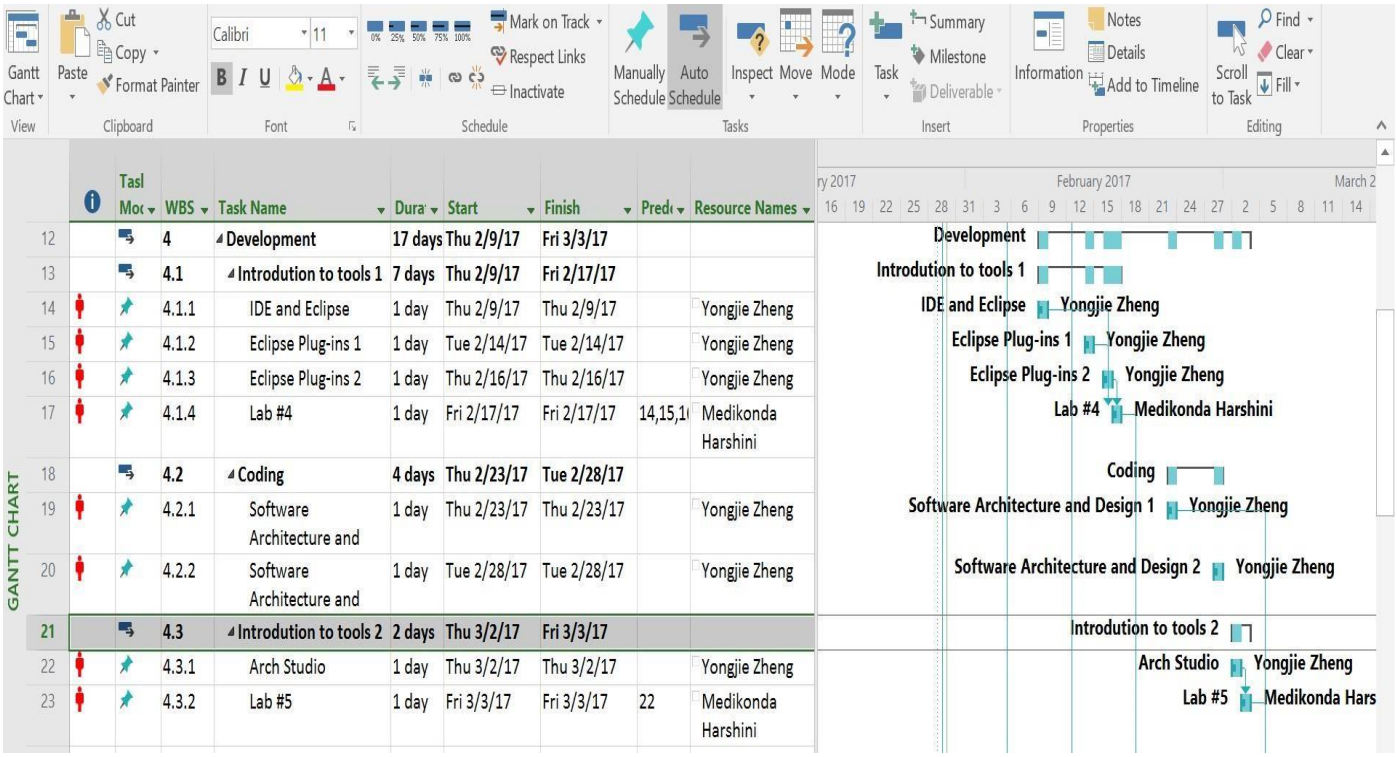
1. Resource Sheet:



2. Tasks 0-3

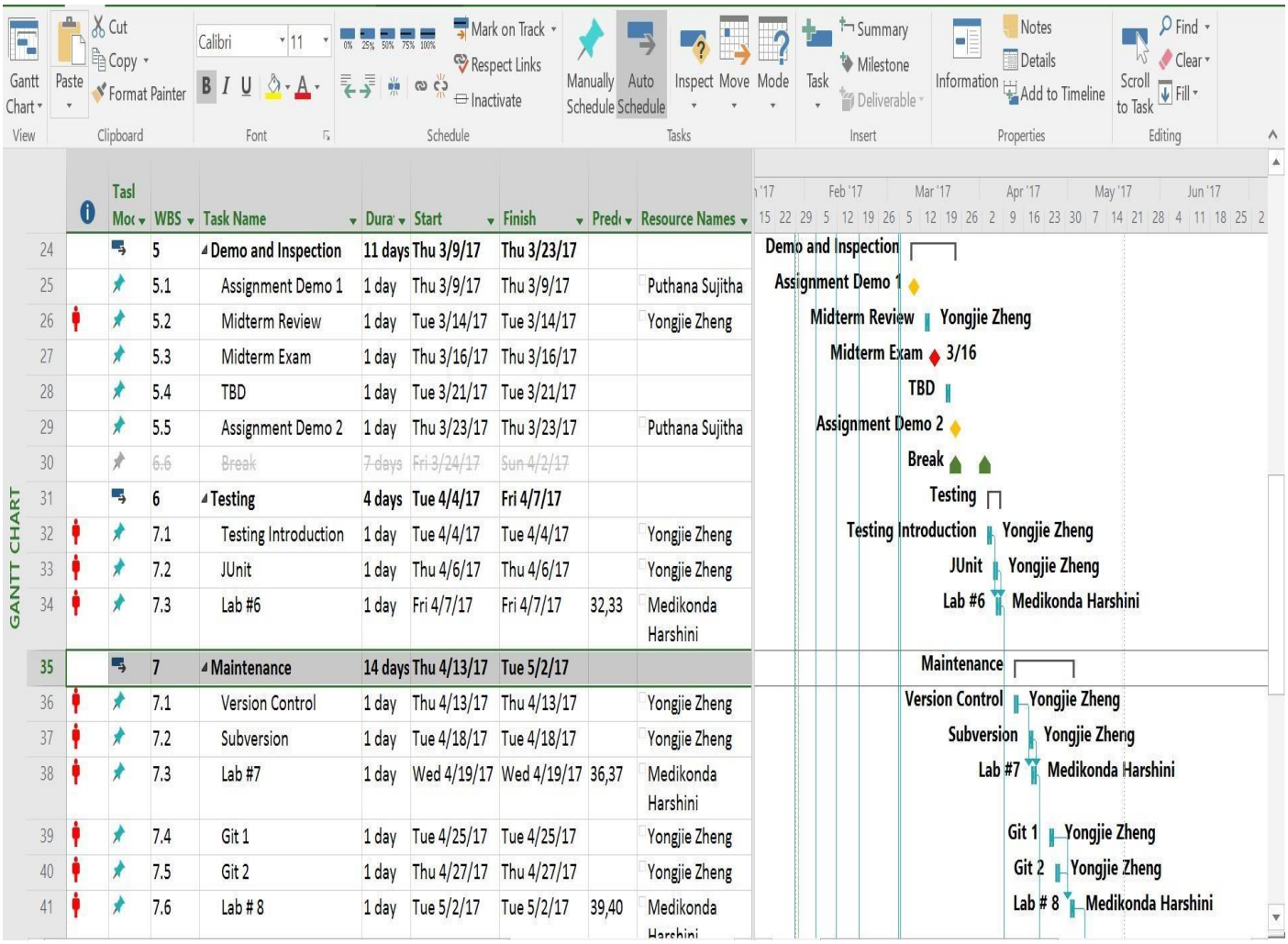


3. Task 4



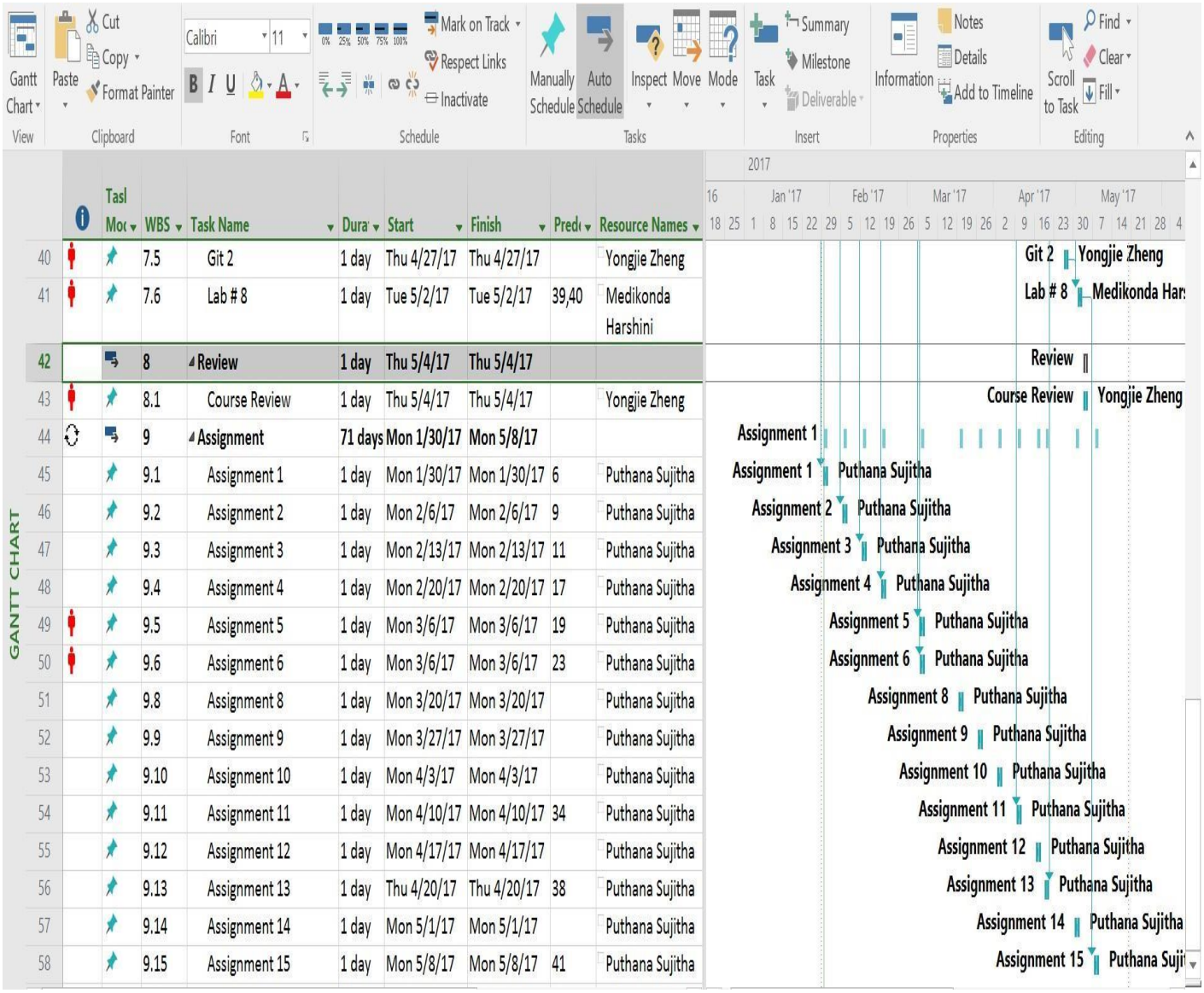
	Tasl Mo	WBS	Task Name	Dura	Start	Finish	Pred	Resource Names
12		4	Development	17 days	Thu 2/9/17	Fri 3/3/17		
13		4.1	Introdution to tools 1	7 days	Thu 2/9/17	Fri 2/17/17		
14		4.1.1	IDE and Eclipse	1 day	Thu 2/9/17	Thu 2/9/17		Yongjie Zheng
15		4.1.2	Eclipse Plug-ins 1	1 day	Tue 2/14/17	Tue 2/14/17		Yongjie Zheng
16		4.1.3	Eclipse Plug-ins 2	1 day	Thu 2/16/17	Thu 2/16/17		Yongjie Zheng
17		4.1.4	Lab #4	1 day	Fri 2/17/17	Fri 2/17/17	14,15,1	Medikonda Harshini
18		4.2	Coding	4 days	Thu 2/23/17	Tue 2/28/17		
19		4.2.1	Software Architecture and	1 day	Thu 2/23/17	Thu 2/23/17		Yongjie Zheng
20		4.2.2	Software Architecture and	1 day	Tue 2/28/17	Tue 2/28/17		Yongjie Zheng
21		4.3	Introdution to tools 2	2 days	Thu 3/2/17	Fri 3/3/17		
22		4.3.1	Arch Studio	1 day	Thu 3/2/17	Thu 3/2/17		Yongjie Zheng
23		4.3.2	Lab #5	1 day	Fri 3/3/17	Fri 3/3/17	22	Medikonda Harshini

4. Task 5-7



	Tasl Mo	WBS	Task Name	Dura	Start	Finish	Pred	Resource Names
24		5	Demo and Inspection	11 days	Thu 3/9/17	Thu 3/23/17		
25		5.1	Assignment Demo 1	1 day	Thu 3/9/17	Thu 3/9/17		Puthana Sujitha
26		5.2	Midterm Review	1 day	Tue 3/14/17	Tue 3/14/17		Yongjie Zheng
27		5.3	Midterm Exam	1 day	Thu 3/16/17	Thu 3/16/17		
28		5.4	TBD	1 day	Tue 3/21/17	Tue 3/21/17		
29		5.5	Assignment Demo 2	1 day	Thu 3/23/17	Thu 3/23/17		Puthana Sujitha
30		6.6	Break	7 days	Fri 3/24/17	Sun 4/2/17		
31		6	Testing	4 days	Tue 4/4/17	Fri 4/7/17		
32		7.1	Testing Introduction	1 day	Tue 4/4/17	Tue 4/4/17		Yongjie Zheng
33		7.2	JUnit	1 day	Thu 4/6/17	Thu 4/6/17		Yongjie Zheng
34		7.3	Lab #6	1 day	Fri 4/7/17	Fri 4/7/17	32,33	Medikonda Harshini
35		7	Maintenance	14 days	Thu 4/13/17	Tue 5/2/17		
36		7.1	Version Control	1 day	Thu 4/13/17	Thu 4/13/17		Yongjie Zheng
37		7.2	Subversion	1 day	Tue 4/18/17	Tue 4/18/17		Yongjie Zheng
38		7.3	Lab #7	1 day	Wed 4/19/17	Wed 4/19/17	36,37	Medikonda Harshini
39		7.4	Git 1	1 day	Tue 4/25/17	Tue 4/25/17		Yongjie Zheng
40		7.5	Git 2	1 day	Thu 4/27/17	Thu 4/27/17		Yongjie Zheng
41		7.6	Lab # 8	1 day	Tue 5/2/17	Tue 5/2/17	39,40	Medikonda Harshini

5. Task 8-9



	Task Mode	WBS	Task Name	Duration	Start	Finish	Predecessors	Resource Names
40		7.5	Git 2	1 day	Thu 4/27/17	Thu 4/27/17		Yongjie Zheng
41		7.6	Lab # 8	1 day	Tue 5/2/17	Tue 5/2/17	39,40	Medikonda Harshini
42		8	Review	1 day	Thu 5/4/17	Thu 5/4/17		
43		8.1	Course Review	1 day	Thu 5/4/17	Thu 5/4/17		Yongjie Zheng
44		9	Assignment	71 days	Mon 1/30/17	Mon 5/8/17		
45		9.1	Assignment 1	1 day	Mon 1/30/17	Mon 1/30/17	6	Puthana Sujitha
46		9.2	Assignment 2	1 day	Mon 2/6/17	Mon 2/6/17	9	Puthana Sujitha
47		9.3	Assignment 3	1 day	Mon 2/13/17	Mon 2/13/17	11	Puthana Sujitha
48		9.4	Assignment 4	1 day	Mon 2/20/17	Mon 2/20/17	17	Puthana Sujitha
49		9.5	Assignment 5	1 day	Mon 3/6/17	Mon 3/6/17	19	Puthana Sujitha
50		9.6	Assignment 6	1 day	Mon 3/6/17	Mon 3/6/17	23	Puthana Sujitha
51		9.8	Assignment 8	1 day	Mon 3/20/17	Mon 3/20/17		Puthana Sujitha
52		9.9	Assignment 9	1 day	Mon 3/27/17	Mon 3/27/17		Puthana Sujitha
53		9.10	Assignment 10	1 day	Mon 4/3/17	Mon 4/3/17		Puthana Sujitha
54		9.11	Assignment 11	1 day	Mon 4/10/17	Mon 4/10/17	34	Puthana Sujitha
55		9.12	Assignment 12	1 day	Mon 4/17/17	Mon 4/17/17		Puthana Sujitha
56		9.13	Assignment 13	1 day	Thu 4/20/17	Thu 4/20/17	38	Puthana Sujitha
57		9.14	Assignment 14	1 day	Mon 5/1/17	Mon 5/1/17		Puthana Sujitha
58		9.15	Assignment 15	1 day	Mon 5/8/17	Mon 5/8/17	41	Puthana Sujitha