

Contents

1 Planning	1
1.1 Project objective and milestones.....	2
1.2 Timetable	2
2 Iteration 1	2
2.1 Timetable	2
2.2 Milestone One.....	2
2.3 Milestone Two	3
2.4 Milestone Three	3
2.5 Milestone Four	3
3 Iteration 2	3
3.1 Timetable	4
3.2 Milestone One.....	4
3.3 Milestone Two	4
3.4 Milestone Three	4
3.5 Milestone Four	5
3.6 Milestone Five	5
4 Iteration 3	5
4.1 Timetable	6
4.2 Milestone One.....	Error! Bookmark not defined.
4.3 Milestone Two	Error! Bookmark not defined.
4.4 Milestone Three	Error! Bookmark not defined.
4.5 Milestone Four	6
4.6 Milestone Five	6
4.7 Milestone Six	6
4.8 Milestone Seven.....	7
4.9 Milestone Eight.....	7

1 Planning

The plan is to continue to develop and update the implementations done in the previous assignments.

1.1 Project objective and milestones

Project: the objective is build a functional API and test its functionality.

Iteration one: the objective is to Update/edit the use cases and design diagrams for View a list of books and remove a book. Also, modify test cases and test plan for the use cases and its implementation.

Iteration two: the objective is to create diagrams for add a book, edit a book **and** view a book. Also, create and implement test cases, unit test to these use cases implemented in a new code.

Iteration three: create and implement test cases, unit test to these use cases implemented in a new code. Lastly, preform an API test, update the project plan and create test suites.

1.2 Timetable

Iteration	Start	End	ET
Planning	3/9/2018	3/9/2018	1 hour
Iteration one:	3/9/2018	3/9/2018	~ 2 hours 30 min
Iteration two:	3/9/2018	3/9/2018	~ 2 hours 30 min
Iteration three:	3/9/2018	3/9/2018	~ 2 hours 30 min

2 Iteration 1

2.1 Timetable

#	Milestones	Start	End	ET
1	Update diagrams for the use cases, view list of books and remove a book	3/9/2018	3/9/2018	30 minutes
2	Update the design diagrams for view a list of books and remove a book	3/9/2018	3/9/2018	30 minutes
3	Update the test plan	3/9/2018	3/9/2018	25 minutes
4	Update the test cases and its implementations	3/9/2018	3/9/2018	30 minutes

2.2 Milestone One

Objective	Start	End	ET
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Update Use cases diagram	3/9/2018	3/9/2018	5 minutes
Update activity, robustness and sequence diagrams for view a list of books	3/9/2018	3/9/2018	10minutes
Update activity, robustness and sequence diagrams for remove a book	3/9/2018	3/9/2018	12 minutes

2.3 Milestone Two

Objective	Start	End	ET
Update the Sequence diagram for view a list of books	3/9/2018	3/9/2018	15 minutes
Update the sequence diagram for remove a book	3/9/2018	3/9/2018	15 minutes

2.4 Milestone Three

Objective	Start	End	ET
Update old requirements	3/9/2018	3/9/2018	10 minutes
Identify new requirements	3/9/2018	3/9/2018	15minutes

2.5 Milestone Four

Objective	Start	End	ET
Update test cases	3/9/2018	3/9/2018	15 minutes
Update the implementations	3/9/2018	3/9/2018	15 minutes

3 Iteration 2

All milestones were completed in the last iteration

3.1 Timetable

#	Milestones	Start	End	ET
1	Create diagrams for Add a book, view a book and Edit a book	3/9/2018	3/9/2018	45 minutes
2	Create design diagrams	3/9/2018	3/9/2018	30 minutes
3	Implement the design	3/9/2018	3/9/2018	45 minutes
4	Create test cases and its implementation	3/9/2018	3/9/2018	30 minutes
5	Create a Unit test for the new implemented code	3/9/2018	3/9/2018	30 minutes

3.2 Milestone One

Objective	Start	End	ET
Create diagrams for Add a book (Activity, robustness and sequence)	3/9/2018	3/9/2018	15 minutes
Create diagrams for View a book (Activity, robustness and sequence)	3/9/2018	3/9/2018	15minutes
Create diagrams for Edit a book (Activity, robustness and sequence)	3/9/2018	3/9/2018	15 minutes

3.3 Milestone Two

Objective	Start	End	ET
Create the design diagram for Add a book	3/9/2018	3/9/2018	10 minutes
Create the design diagram for View a book	3/9/2018	3/9/2018	10 minutes
Create the design diagram for Edit a book	3/9/2018	3/9/2018	10 minutes

3.4 Milestone Three

Objective	Start	End	ET
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Implementation of add a book	3/9/2018	3/9/2018	15 minutes
Implementation of view a book	3/9/2018	3/9/2018	15 minutes
Implementation of edit a book	3/9/2018	3/9/2018	15 minutes

3.5 Milestone Four

Objective	Start	End	ET
Create and implement test Case for add a book	3/9/2018	3/9/2018	10 minutes
Create and implement test case for view a book	3/9/2018	3/9/2018	10 minutes
Create and implement test case for edit a book	3/9/2018	3/9/2018	10 minutes

3.6 Milestone Five

Objective	Start	End	ET
Create a unit test for the new code implemented in catalog class	3/9/2018	3/9/2018	30 minutes

4 Iteration 3

4.1 Timetable

#	Milestones	Start	End	ET
1	Create test cases and its implementation	3/9/2018	3/9/2018	30 minutes
2	Create a Unit test for the new implemented code	3/9/2018	3/9/2018	15 minutes
3	Create a API test	3/9/2018	3/9/2018	30 minutes
4	Modify and update the project plan	3/9/2018	3/9/2018	30 minutes
5	Create test suites	3/9/2018	3/9/2018	30 minutes

4.2 Milestone Four

- **Objective:** Create Test cases.
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 15 minutes
-
- **Objective:** Implantation of the test cases.
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 15 minutes

4.3 Milestone Five

- **Objective:** Create unit test for the new code implementation in catalog class.
- **Started on:** 3/9/2018
- **Ended on:** 3/9/2018
- **Estimated time:** 15 minutes

4.4 Milestone Six

- **Objective:** API test for add a book
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 15 minutes
-
- **Objective:** API test for Remove a book
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018

- **Estimated time:** 15 minutes
-
- **Objective:** API test for view a list of books
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 15 minutes
-
- **Objective:** API test for Edit a book
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 15 minutes
-
- **Objective:** API test for View a book
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 15 minutes

4.5 Milestone Seven

- **Objective:** Modify and update the project plan
- **Started on:** 3/9/2018
- **Ended on:** 3/9/2018
- **Estimated time:** 15 minutes

4.6 Milestone Eight

- **Objective:** Create a model Test Suit
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 10 minutes
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- **Objective:** Create a API Test Suit
 - **Started on:** 3/9/2018
 - **Ended on:** 3/9/2018
 - **Estimated time:** 10 minutes
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- **Objective:** Create Use Cases Test Suit

- **Started on:** 3/9/2018
- **Ended on:** 3/9/2018
- **Estimated time:** 10 minutes

- **Objective:** Create a Complete System Test Suit
- **Started on:** 3/9/2018
- **Ended on:** 3/9/2018
- **Estimated time:** 10 minutes