<Online Freelance Marketplace>

Software Requirements Specification

Version 1.0

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Revision History

Date (12/12/2018)	Version	Description	Author
12/12/2018	1.0	The proposed Web based application is required for all Online Freelance Marketplace. **A freelance services marketplace** is an online platform where businesses can find and hire individual contractors to do some work remotely.	BS140401445

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SRS Document

Scope of Project:

Online freelance marketplace is a web portal on which freelancers and employers interacts with each other. In this platform an employer usually posts a project and many freelancers bid on that project; the employer after reviewing the bids then awards the project to a specific freelancer with most efficient bid. In this way the employer gets his job done and the freelancer earns money. Examples of such platforms are www.upwork.com, www.guru.com etc.

On other hand platforms like www.fiverr.com allows a freelancer to sell his services without indulging in bidding.

This project aims to develop a freelance marketplace where not only an employer could post a project for bidding but a freelancer could also offer his/her services for buyers.

Functional and non-Functional Requirements:

Functional Requirements:

Following are the key functional requirements of proposed Project:

1. Sign In and User Registration

There will be four categories of Website users:

- Visitor (Unregistered User)
- Employer
- Freelancer
- Administrator (Admin)

Visitor will be able to just see the available projects and bids on the website.

Employer will have the privileges to Post jobs, Review bids, Award projects and other project related tasks on the website.

Freelancer will have the rights of biding on a Project, checking bidding status; submitting the Project files to employer and performing other Project related tasks.

Administrator will be the user having all the rights of website. Admin will also approve the registration requests from users.

There will be Sign In interface for registered users and Sign Up interface for unregistered users to register on the website as Employer and Freelancer.

2. User management (Approving/rejecting user registration requests)
3. User authentication (Conformation link shall be sent on user's email address provided while registration)
4. Employer Dashboard (proper interfaces for managing employer related tasks)
5. Freelancer Dashboard (proper interfaces for managing freelancer related tasks)
6. Freelancer service selling interface

7. Job/Projects Management for employer
    a. Using this interface the employer could:
        i. Post jobs
        ii. Review bids
        iii. Award projects
        iv. Open Project Message Board
        v. Collect project related files
        vi. Provide Project related information to Freelancer
        vii. Other Project related tasks
8. Job/Projects Management for freelancer
    b. Using this interface a freelancer could:
        i. Bid on a Project
        ii. Check bidding status

iii. Reply on a Project Message
iv. Submit the Project files to employer
v. Other Project related tasks

9. Admin Interface (An interface for the management of all admin related tasks)
10. An interface to check earning for a freelancer
11. An interface to check spending for an employer
12. Project search interface for freelancer
13. Services search interface for employer

Non-Functional Requirements:

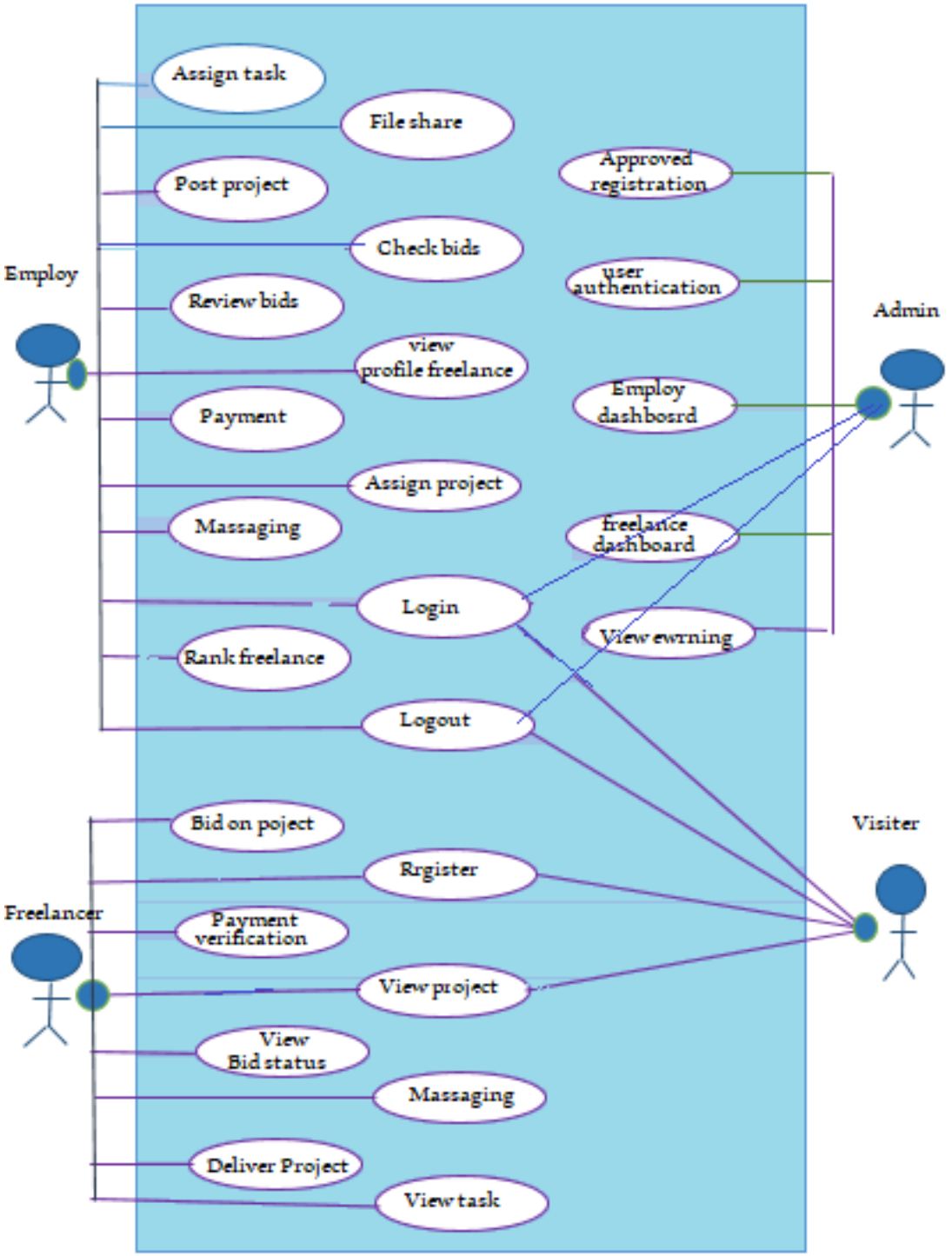
Performance:
Performance requirements concern the speed of operation of a system. The non-functional requirements should identify those software functions that have constraint on their performance.

Maintainability:
Maintainability requirements may cover diverse levels of documentation, such as system documentation, as well as test documentation, e.g. which test cases and test plans will accompany the system.
Usability:
It is an easy way for a user to learn to operate. It is well-formed GUI.

Portability:
Portability specifies the ease with which the software can be installed on all necessary platforms, and the platforms on which it is expected to run.

Reliability:
Reliability is the ability of a system to perform its required functions under specific period of time

Use Case Diagram(s):



Usage Scenarios:

1. Assign Task

Use Case Title	**Assign task**
Use Case Id	**001**
Actor	**Employ**
action	Employ assign new task.
Description	1. Employ click on assign task button. 2. System ask related information to task. 3. After submit form task added successfully. 4. This use case end.
Pre-condition	Assign task is not added.
Post-Conditions	Assign task added successfully.
Author	**BS140401445**

2. File Share

Use Case Title	**File share**

Use Case Id	002
Actor	Employ
action	Employ all type of share file.
Description	1. Employ click on file share button. 2. System ask related information to file. 3. After submit form file share added successfully. 4. This use case end.
Pre-condition	File share is not added.
Post-Conditions	File share added successfully.
Author	BS140401445

3. Post Project

Use Case Title	Post project
Use Case Id	003
Actor	Employ
action	Employ post all type of project.
Description	1. Employ click post project button. 2. System ask related information to project. 3. After submit form project added successfully. 4. This use case end.
Pre-condition	Post project is not added.
Post-Conditions	Post project added successfully.
Author	BS140401445

4. Check Bids

Use Case Title	Check bids
Use Case Id	004
Actor	Employ
action	Employ check all type of bids.
Description	1. Employ click check bids button. 2. System ask related information to bids. 3. After submit form bid added successfully. 4. This use case end.
Pre-condition	Check bids is not added.
Post-Conditions	Check bids added successfully.
Author	BS140401445

5. Review Bids

Use Case Title	Review bids
Use Case Id	005
Actor	Employ
action	Employ review all type of bids.
Description	1. Employ click review bids button. 2. System ask related information to review bids. 3. After submit form review bids added successfully. 4. This use case end.

Pre-condition	Review bids is not added.
Post-Conditions	Review bids added successfully.
Author	**BS140401445**

6. View Profile Freelance

Use Case Title	**View profile freelance**
Use Case Id	**006**
Actor	**Employ**
action	Employ view all type of profile.
Description	1. Employ click profile button. 2. System ask related information to profile. 3. After submit form profile added successfully. 4. This use case end.
Pre-condition	View profile freelance is not added.
Post-Conditions	View profile freelance added successfully.
Author	**BS140401445**

7. Payment

Use Case Title	**Payment**
Use Case Id	**007**
Actor	**Employ**

action	Employ manage all type of payments.
Description	1. Employ click payment button. 2. System ask related information to payment. 3. After submit form payment added successfully. 4. This use case end.
Pre-condition	Payment is not added.
Post-Conditions	Payment added successfully.
Author	**BS140401445**

8. Assign Project

Use Case Title	**Assign project**
Use Case Id	**008**
Actor	**Employ**
action	Employ assig all type of project.
Description	1. Employ click assign project button. 2. System ask related information to assign project. 3. After submit form assign project added successfully. 4. This use case end.
Pre-condition	Assign project is not added.
Post-Conditions	Assign project added successfully.
Author	**BS140401445**

9. Massaging

Use Case Title	**Massaging**
Use Case Id	**009**

Actor	**Employ/freelancer**
action	Employ/freelancer send and receive massage.
Description	1. Employ click massage button. 2. System ask related information to massage. 3. After submit form massage added successfully. 4. This use case end.
Pre-condition	Massaging is not added.
Post-Conditions	Massaging added successfully.
Author	**BS140401445**

10. Rank Freelance

Use Case Title	**Rank freelance**
Use Case Id	**0010**
Actor	**Employ**
action	Employ check of rank in freelance.
Description	1. Employ click rank button. 2. System ask related information to rank. 3. After submit form rank added successfully. 4. This use case end.
Pre-condition	Rank freelance is not added.

Post-Conditions	Rank freelance added successfully.
Author	**BS140401445**

11. Login

Use Case Title	**Login**
Use Case Id	**0011**
Actor	**Employ/freelance/admin/visitor**
action	**Employ/freelance/admin/visitor login**.
Description	1. **Employ/freelance/admin/visitor** click login button. 2. System ask related information to login. 3. After submit form login added successfully. 4. This use case end.
Pre-condition	Login is not added.
Post-Conditions	Login added successfully.
Author	**BS140401445**

12. Logout

Use Case Title	**Login**
Use Case Id	**0012**
Actor	**Employ/freelance/admin/visitor**
action	**Employ/freelance/admin/visitor logout**.
Description	1. **Employ/freelance/admin/visitor** click logout button. 2. System ask related information to logout.

	3. After submit form logout added successfully. 4. This use case end.
Pre-condition	Logout is not added.
Post-Conditions	Logout added successfully.
Author	**BS140401445**

Freelancer

13. Bid On Project

Use Case Title	**Bid on project**
Use Case Id	**0013**
Actor	**Freelancer**
action	**Freelancer check all bid on project.**
Description	1. Freelancer click bid on project button. 2. System ask related information to bid on project. 3. After submit form project added successfully. 4. This use case end.
Pre-condition	Bid on project is not added.
Post-Conditions	Bid on project added successfully.
Author	**BS140401445**

14. Register

Use Case Title	**Register**
Use Case Id	**0013**

Actor	**Freelancer/employ/visitor**
action	**Freelancer/employ/visitor register first**.
Description	1. Freelancer click register button. 2. System ask related information to him/herself. 3. After submit form register added successfully. 4. This use case end.
Pre-condition	Register is not added.
Post-Conditions	Register added successfully.
Author	**BS140401445**

15. Payment Verification

Use Case Title	**Payment verification**
Use Case Id	**0015**
Actor	**Freelancer**
action	**Freelancer verify payment**.
Description	1. Freelancer click payment verified button. 2. System ask related information to payment. 3. After submit form payment added successfully. 4. This use case end.
Pre-condition	Payment verification is not added.
Post-Conditions	Payment verification added successfully.
Author	**BS140401445**

16. View Project

Use Case Title	View project
Use Case Id	0016
Actor	Freelancer/visitor
action	**Freelancer/visitor view all type of project**.
Description	1. Freelancer click view project button. 2. System ask related information of project. 3. After submit form project added successfully. 4. This use case end.
Pre-condition	View project is not added.
Post-Conditions	View project added successfully.
Author	**BS140401445**

17. View Bid Status

Use Case Title	View bid status
Use Case Id	0017
Actor	Freelancer
action	**Freelancer view all type of bid status**.
Description	1. Freelancer click bid status button. 2. System ask related information to bid status. 3. After submit form bid status added successfully. 4. This use case end.
Pre-condition	View bid status is not added.

Post-Conditions	View bid status added successfully.
Author	**BS140401445**

18. Deliver Project

Use Case Title	**Deliver project**
Use Case Id	**0018**
Actor	**Freelancer**
action	**Freelancer deliver all type of project**.
Description	1. Freelancer click deliver project button. 2. System ask related information to deliver project. 3. After submit form project added successfully. 4. This use case end.
Pre-condition	Deliver project is not added.
Post-Conditions	Deliver project added successfully.
Author	**BS140401445**

19. View Task

Use Case Title	**View task**
Use Case Id	**0019**
Actor	**Freelancer**

action	**Freelancer view all task.**
Description	1. Freelancer click view task button. 2. System ask related information to view task. 3. After submit form view task added successfully. 4. This use case end.
Pre-condition	View task is not added.
Post-Conditions	View task added successfully.
Author	**BS140401445**

Admin

20. Approved Registration

Use Case Title	**Approved registration**
Use Case Id	**0020**
Actor	**Admin**
action	**Admin approved all registration.**
Description	1. Admin click approve registration button. 2. System ask related information to approve registration. 3. After submit form approve registration added successfully. 4. This use case end.
Pre-condition	Approved registration is not added.
Post-Conditions	Approved registration added successfully.
Author	**BS140401445**

21. View Authentication

Use Case Title	View authentication
Use Case Id	0021
Actor	Admin
action	**Admin view authentication**.
Description	1. Admin click view authentication button. 2. System ask related information to view authentication. 3. After submit form authentication added successfully. 4. This use case end.
Pre-condition	View authentication is not added.
Post-Conditions	View authentication added successfully.
Author	**BS140401445**

22. Freelance Dashboard

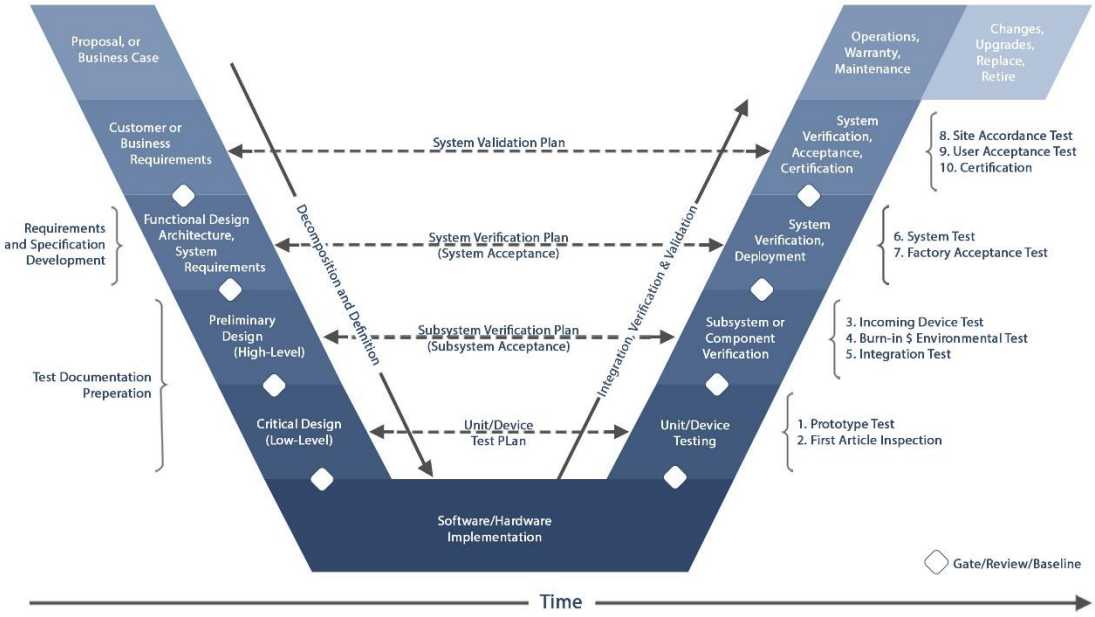
Use Case Title	Employ /Freelance dashboard
Use Case Id	0022
Actor	Admin
action	**Admin check employ/freelance dashboard**.
Description	1. Admin click dashboard button. 2. System ask related information to dashboard. 3. After submit form dashboard added successfully. 4. This use case end.
Pre-condition	Freelance/employ dashboard is not added.
Post-Conditions	Freelance/employ dashboard added successfully.
Author	**BS140401445**

23. View Earning

Use Case Title	View earning
Use Case Id	0023
Actor	Admin
action	**Admin view all type of earning**.
Description	1. Admin click earning button. 2. System ask related information to view earning. 3. After submit form view earning registration added successfully. 4. This use case end.
Pre-condition	View earning is not added.
Post-Conditions	View earning added successfully.
Author	**BS140401445**

Adopted Methodology

In my project "**Online solution for Research Proposal writing and submission**" I have chosen the methodology for developing this project is waterfall and spiral model. Because these methodologies have more advantages and very less disadvantages.



Reasons for choosing the Methodology:

Straight-Forward:
This Methodology is very straight forward and easy to understand. By this Methodology a person can easily understand what to do.

Implementation Phase:
Project can move quickly to the implementation phase because of this adopted methodology.

Significant and Reliability:
Does work for certain problem domains, notably those where the requirements are well understand in advance and unlikely to changes significantly over the course of development, and where reliability of final product is critical. This assumes you have the resources i.e. Time and People, to do it properly.

Control Requirement Issues:
By choosing this methodology we are not require all project resources at the beginning of the project. At for as we go the requirement needs step by step.

Reduce Complexity:
This methodology reduces the complexity of the project. At initial state when we start the project and not have any idea about this project then these

methodologies allow for a very complex project with incomplete initial understanding of requirement since development is done in small, spiral phases where each phase consists of requirements, risks analysis, and design.

Communicational way between developer and customer:
Their methods in a growth of developing oscillate between manufacturer and Clint. It establishes effective communication between developer and customer. Through this the developer can easily understand what customer want and can judge the customer's requirements.

Timelines:
Through these capabilities of Methodology that provide the working schedule and inform us the definition of resources, timelines and other project related information.

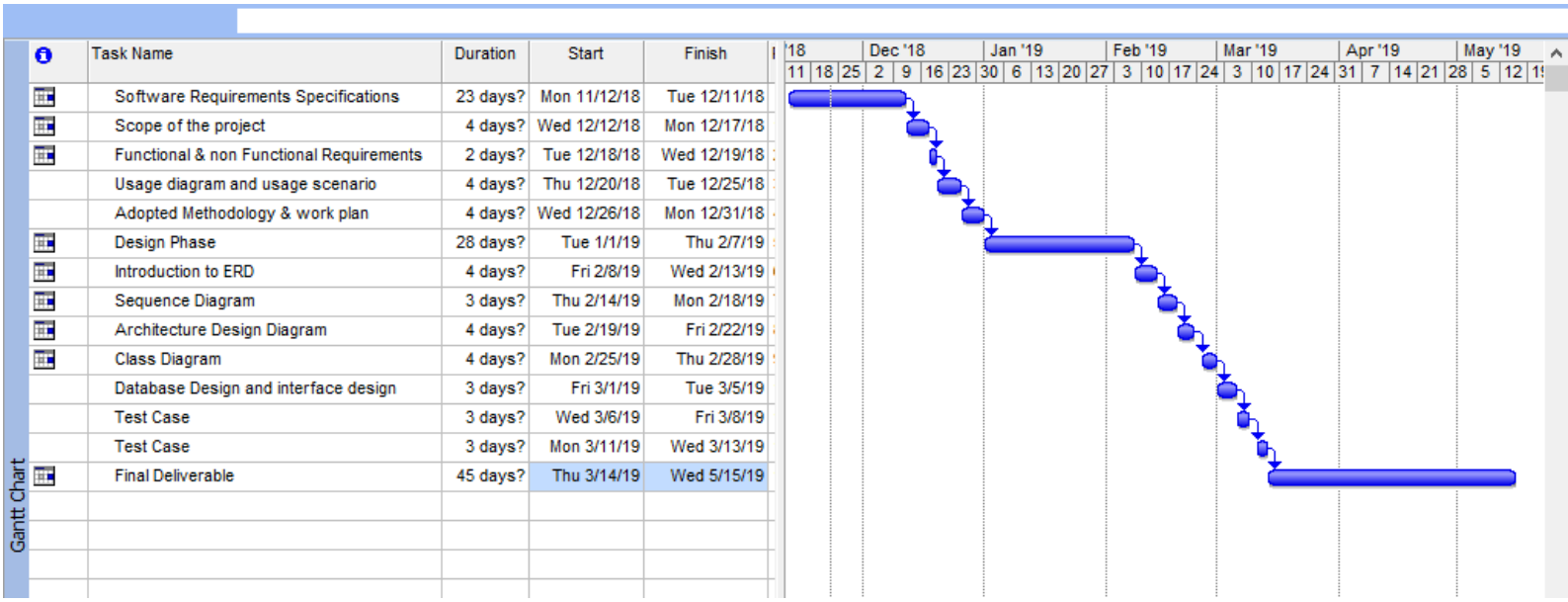
Reduce Insufficient Involvement:
It assesses both technical and management risks, it control the insufficient user involvement leads to unaccepted product. If inputs from different types of users are not taken, the output is bound to lack in key functional areas, resulting in an unacceptable product. Overlooking the needs of certain user classes leads to dissatisfaction of customers.

Ability to fulfill Requirements:
It chases the requirement of the software. During any stage of developing software if any new requirement comes then this methodology provides us the facility to full it. It builds one or more representations of the application. Creeping user requirements contribute to overruns and degrade product quality. Requirement creep is one of the most significant factors in budget and time overruns. It basically means identifying and adding new requirements to the list at some advanced stages of the software development process.

Prototyping and Feedback Evaluation:
It reduces the dissatisfaction of the customer and provides the concept of better satisfaction idea for the customer. It captures the idea for user's vision of the product and get early feedback from user to ensure that the development team understands requirements. It obtains costumers feedback based on

evaluation of the software representations created during the engineering stage and implemented during the installation stage.

Work Plan (Use MS Project to create Schedule/Work Plan)



	Task Name	Duration	Start	Finish
	Software Requirements Specifications	23 days?	Mon 11/12/18	Tue 12/11/18
	Scope of the project	4 days?	Wed 12/12/18	Mon 12/17/18
	Functional & non Functional Requirements	2 days?	Tue 12/18/18	Wed 12/19/18
	Usage diagram and usage scenario	4 days?	Thu 12/20/18	Tue 12/25/18
	Adopted Methodology & work plan	4 days?	Wed 12/26/18	Mon 12/31/18
	Design Phase	28 days?	Tue 1/1/19	Thu 2/7/19
	Introduction to ERD	4 days?	Fri 2/8/19	Wed 2/13/19
	Sequence Diagram	3 days?	Thu 2/14/19	Mon 2/18/19
	Architecture Design Diagram	4 days?	Tue 2/19/19	Fri 2/22/19
	Class Diagram	4 days?	Mon 2/25/19	Thu 2/28/19
	Database Design and interface design	3 days?	Fri 3/1/19	Tue 3/5/19
	Test Case	3 days?	Wed 3/6/19	Fri 3/8/19
	Test Case	3 days?	Mon 3/11/19	Wed 3/13/19
	Final Deliverable	45 days?	Thu 3/14/19	Wed 5/15/19