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X-Note
Project Plan
Version 1.0

By:
X-Note Developers
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Document Language:
English

Revision History

Date	Version	Description	Author
04/01/2019	1.0	Create and draft.	Jingyu Li

Contents

1. Introduction

1.1 Purpose

The document serves to make systematic plans and arrangements for the development of the App X-Note. The document make plans about the workflow, team architecture, development schedule, budgets, internal and external requirements and technical methods. With those plans, team member can better understand the project and their roles. Then the project shall be carried out in a well-organized order and finished according to the schedule.

1.2 Background

(1) App name: X-Note
(2) Developers and users:
Developers: Jingyu Li, Du Liu, Shixuan Gu, Qiuxuan Ling, Yu Fan
Users: learners, especially students
(3) Association with other systems or institutions:
May use Markdown official APIs and Electron framework for the development.

1.3 Reference

(1) Object-Oriented Software Engineering: Using UML, Patterns, and Java (Third Edition). Pearson Education, Inc., 2010.
(2) 面向对象软件工程实践指南. 上海交通大学出版社, 2016.

2. Project Overview

2.1 Objective

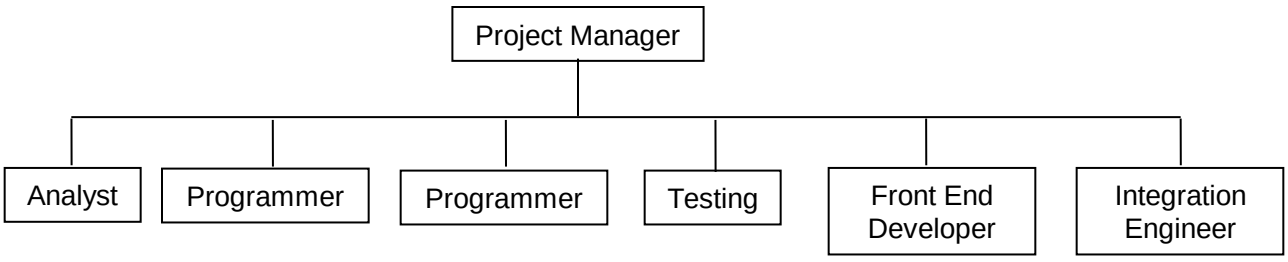
Our project aims at making a cross-platform desktop application X-Note, to facilitate the learning process through note taking and mind maps. We would like our App to be convenient and effective. That is to say, users will not take much efforts to take down and organize the notes, but can get a well-organized and crystal-clear structure generated by our App.

2.2 Our work

We divide our project into the following work:
(1) Project feasibility analysis
(2) Project requirement analysis
(3) System architecture design
(4) Code implementation
(5) Test and release
(6) Post-development management and maintenance

2.3 Team structure

The organizational structure of our team is shown below.



Name	Description	Role
Jingyu Li	He has participated in several small projects and takes the lead once.	Project Manager
Yu Fan	He has serval years' experience of development.	Analyst, Programmer
Qiuxuan Ling	She has been responsible for the front-end production for several times.	Front End Developer, Testing
Shixuan Gu	He has accomplished several team projects once.	Programmer, Testing
Du Liu	He has developed some small projects once.	Integration Enginneer, Analyst

2.4 Products

2.4.1 Programs

Name: X-Note
Programing language: JavaScript
Platform: Windows, Linux, Mac OS

2.4.2 Files

(1) Feasibility Report
(2) Project Plan
(3) Risk List
(4) System Requirements Document
(5) Glossary
(6) System Architecture Document
(7) System Design Pattern
(8) Module Development Document
(9) System Testing Plan
(10) System Testing Report
(11) User Manual
(12) System Acceptance Report
(13) Deliverable List
(14) Project Report
(15) Source Code

2.4.3 Services

(1) Training of installation and use. Period: one year since release.
(2) Maintenance and support. Period: one year since release.

2.4.4 Non-deliverable products

None.

2.4.5 Acceptance criteria

The system works well and achieves all the required features.

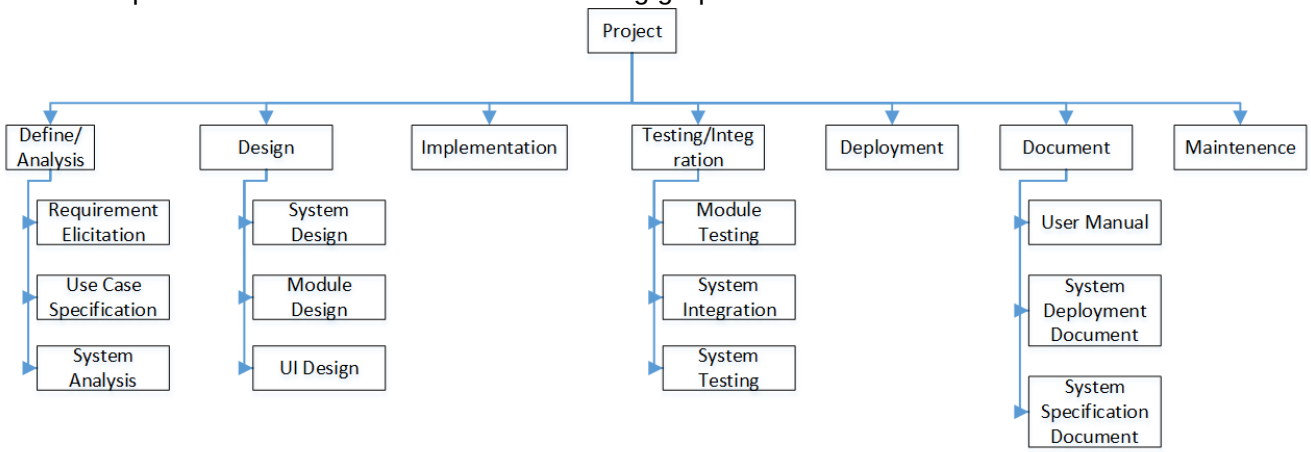
2.4.6 Finishing date

Planned: 2019.5.26
Deadline: 2019.6.2

3. Implementation

3.1 Work decomposition and assignment

We decompose the work and show it in the following graph.



Our specific job assignment is shown in the following table.

Job Assignment

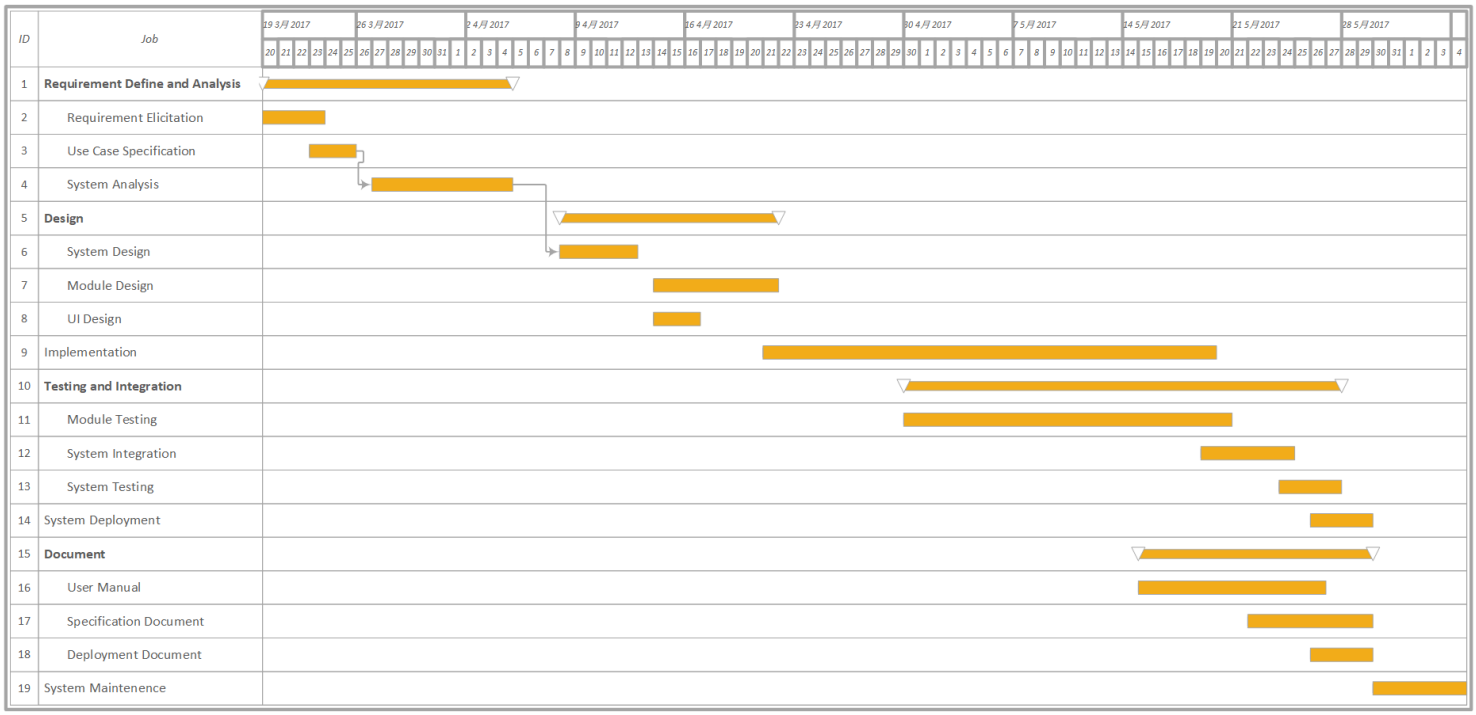
Job	Resposible	Participants
Requirement Elicitation	Yu Fan	Du Liu, Qiuxuan Ling
Use Case Specification	Jingyu Li	Shixuan Gu
System Analysis	Shixuan Gu	Du Liu
System Design	Jingyu Li	Du Liu, Yu Fan
Module Design	Du Liu	Shixuan Gu
UI Design	Qiuxuan Ling	Yu Fan
Module Implementation	Jingyu Li	Du Liu, Shixuan Gu, Yu Fan, Qiuxuan Ling
Module Testing	Qiuxuan Ling	
System Integration	Du Liu	Shixuan Gu
System Testing	Shixuan Gu	
System Deployment	Jingyu Li	Du Liu
User Manual	Qiuxuan Ling	Yu Fan
Specification Document	Yu Fan	Qiuxuan Ling
Deployment Document	Shixuan Gu	
System Maintenence	Du Liu	

3.2 Stage Plan

Project Schedule

Completion of Events	Expected Date
Requirement Analysis	04/07/2019
System Architecture Design	04/21/2019
Module Implementation	05/19/2019
System Integration	05/21/2019
System Testing	05/26/2019
System Deployment	05/29/2019
Project Completed	06/02/2019

The gantt graph for job assignment is shown below.



3.3 Budget

(1) Number of developers: 5
(2) Expected period: about 2 months
(3) Financial budget: The system is developed by students in their free time, so the HR cost is negligible. For the maintenance, we need to fix bugs and improve user experience, but we will not hire others to this work, since the system will be demo and makes no profit.
Total cost: 0

3.4 Key problems

(1) How to make note-taking convenient and effective?
(2) How to make user interface pleasing and clear?
(3) How to protect user's data from loss or leakage?
(4) How to successfully develop the system in such a short time?
(5) How to coordinate different jobs to achieve maximal efficiency?

4. Technical Procedure

4.1 Tools and methods

We will use framework Electron and JavaScript programming language for the development of the system. We will use structured system development methodology and decompose the system into several modules. We will use Waterfall Model for the software life cycle.

4.2 Technical standards

Our project obeys the following technical standards:

1) Business modeling guide
   None.
2) User interface guide
   Google Material Design (https://www.google.com/design/spec/material-design)
3) Use case modeling guide
   Object-Oriented Software Engineering: Using UML, Patterns, and Java (Third Edition).
4) Design guide
   Google Material design (https://www.google.com/design/spec/material-design)
5) Programing guide
   None.
6) Testing guide
   GBT 15532-2008 Specification of computer software testing
7) Code style guide
   None.

5. External Support

1) From users
   Users shall reports bugs when using the system and contact the developers for other reasonable requirements.
2) From other institutions
   Markdown official's open source code.