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**Grape**

**Project Summary**

**Version 2.0**

**By**:

Group Undefined

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**Group Member**:

Hunter Lin

Birdy

Listen

Morning

Syachi

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English

**Revision History**

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**Key Word**

Grape

Project management

Summary

**Abstract**

This document is to summary our Grape developing phase, to get a clear a picture of our artifacts and experience. We did learnt a lot via this kind of developing experience. We have a meaningful summer vocation.

**1. Introduction**

* 1. **Purpose**

The purpose of this document is to look back on the whole process of project develop process, and to evaluate whether the project meet customer’s requirements and whether the develop process meet the software engineering requirements, and also to provide success or failure experience.

All the participators of the project are expected to read this document.

* 1. **Background**

Project Name: Grape System

Software System Name: Grape System

Task provider: IEEE honor class (2013) of Shanghai Jiaotong University

Develop team: Undefined team

User: IEEE honor class (2013) of Shanghai Jiaotong University

Computing center: Shanghai Jiaotong University Computing Center

* 1. **Definition**

Project Management: To insure our project development in a correct and efficient way.

* 1. **Reference**

The following documents are provided by the task provider of the project:

SEIEE of Shanghai Jiaotong University

# 2. Actual Artifacts

## 2.1. Artifacts

// main structure of the code hierarchy.

## 2.2. Main Functions and Performance

// main functions (classified.)

## 2.3. Basic Work Flow

// the main work flow of the function.

## 2.4. Schedule

Schedule plan:

|  |  |
| --- | --- |
| Phase | Duration(Week) |
| Project selection | 1 |
| Plan |
| Requirement Analysis | 1.5 |
| Design |
|
| Implementation | 1.5 |
|
|
| Test | 1 |
| Close | 1 |
|
|

Actual schedule:

|  |  |
| --- | --- |
| Phase | Duration(Week) |
| Project selection | 1 |
| Plan |
| Technique studies | 1 |
| Requirement Analysis | 2 |
| Design |
|
| Implementation | 1.5 |
|
|
| Test | 1 |
| Close | 1 |
|
|

Compared with the plan, we have a new phase, Technique studies, for the reason that most of the team members are beginners on flask.py. We spend 1 week on learning the basic knowledge about flask and jinjia2 and other tech needed in the project. In addition, it is first time we use python as the back-end support and the windows 2007 server, which cost time to get familiar with the whole develop environment.

As for Analysis and Design phase, we pay a lot of emphasis on this part. We believe good design will lead to good code and good software performance, flexibility, scalability. So we spend some time focusing on web design patterns (MVC) so as to take full advantage of what we learnt on object-oriented design courses and make the blueprint of the whole system in every member’s head.

## 2.5. Cost

The platform for coding and software is provided by ourselves.

The server for our website is provided by IEEE honor class. (Permission confirmed.)

# 3. Job Evaluation

## 3.1. Work Efficiency Evaluation

Totally, we’ve got four assignments from teacher, each of them would almost be impossible to be accomplished by a single person. That’s why we congregated as a team to work together. Each of the assignment has been done perfectly by all of us. And every one of us has contributed a important part in it.

## 3.2. Product Quality Evaluation

Our Grape system is a satisfying project. From the very beginning when we start to choose project, every one of us has took an active part in it. In the end, most of the purposed functionality has been accomplished. Meanwhile, we also took the security factors into account. Thus a great number of attacks can be prevented by our system; this can be viewed as a bonus mark.

Of course, some of the functionality are not presented due to the lack of time. But we believe that is a wise choice.

## 3.3. Used Technique Evaluation

As mentioned above, we use Python as our back-end supporter. And specifically, we use the light-weighted API flask.py to communicate between front-end and database. To make things easier, we choose mysql as the database. (And Python would support mysql in the aid of MysqlDB). To make out website more interactive and secure, we use ajax as a asynchronous way to serve the user.

The above set of technology is under careful considerations. As for database, mysql is one of the most popular free software available for beginners. The rest of the database choice would be either non-free or hard to getting started. As for the back-end supporter, we choose flask as a light-weighted frame because it gives us a great deal of flexibility, most of the detailed functionality can be defined by ourselves.

## 3.4. Mistake Analysis

Most of the problems are failure we met come from the lack of experience. The most apparent problem is about team work. Since different member has different understandings about certain aspect of the system. We frequently fail to make uniform decisions for the reason of which the code we generates cannot work well while integrating.

The experience tells us how important the communication is. We should predefined something, and make coding style guide first before getting into the real job.

Another severe problem is about schedule. We underestimate the time cost in requirements analysis and the process of learning to use developing environment which cost too much time compared with the original schedule plan. We have to cut down the time on coding and testing so as to meet the deadline, which reduce the performance and quality of the product inevitably.

# 4. Experience and Summary