

**International School**

**ĐỒ ÁN CDIO 2**

**CMU-CS 477-FIMS**

**Project Plan**

**Version 1.1 Date: March 20th, 2021**

**FIMS Mobile Shop**

**Submitted by**

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**PROJECT INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Project acronym** | FMS | | |
| **Project Title** | Phone Store Manager | | |
| **Start Date** | 09 Jan 2024 | **End Date** | 18 Mar 2024 |
| **Lead Institution** | International School, Duy Tan University | | |
| **Project Mentor** | MSc Huy, Truong Dinh | | |
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| **Partner Organization** | Duy Tan University | | |
| **Project Web URL** |  | | |
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**DOCUMENT APPROVALS**

The following signatures are required for approval of this document.

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**DOCUMENT NAME**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document**  **Title** | Project Plan Document | | |
| **Author(s)** | NVKT Team | | |
| **Role** | Product Owner, Team Member, Scrum Master | | |
| **Date** | March 16th,  2024 | **File name:** | C2SE.12\_ProjectPlan\_LET\_ver1.0.doc |

**REVISION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Person(s)** | **Date** | **Description** |
| **1.0** | Ngo Ngoc Tan | 16-Mar-2024 | Create Project plan document |
| **1.1** | Ngo Ngoc Tan | 20-Mar-2024 | Fix Project plan document |

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# 1.Introduction:

## Purpose:

This document provides a summary of the project's objectives, division of work, the major milestones, required resources, time and overall schedule and budget allocation used and based on the document proposal to build a dating website application on time, at the request and plan.

## Project Overview:

- Reference to C2SE.12\_Proposal\_LET\_ver1.2.docx

## Project Deliverable:

- The project will be implemented for users such as admin, manager, teacher, alumni, and student.

# Team Organization:

## Scrum Team Information:

### Table 1: Scrum Team Organization.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Phone** | **Email** |  | **Position** |
| MSc Huy, Truong Dinh | 0982132352 | [truongdinhhuy@dtu.edu.vn](mailto:truongdinhhuy@dtu.edu.vn) |  | Mentor |
| Tan, Ngo Ngoc | 0334002818 | Ngoctan4677@gmail.com |  | Scrum Master |
| Kien, Le Trung | 0399706614 | Letrungkien6@dtu.edu.vn |  | Member |
| Nam,Luu Hai | 0764497391 | luuhainam@dtu.edu.vn |  | Member |
| Van,Nguyen Nhu | 0886428208 | nguyennhuvan@dtu.edu.vn |  | Member |

## Role and Responsibility:

### Table 2: Role and Responsibilities.

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibility** | **Name/Title** |
| **Product Owner** | * Be responsible for the profitability of the product * Define the features of the product * Decide on release date and content * Prioritize features according to market value * Adjust features and priority every iteration, as needed * Accept or reject work results | Duy Tan University |
| **Scrum Master** | * Responsible for enacting Scrum values and practices by facilitating (making it easier) the Scrum process * Managing the Impediments backlog * Ensure that the team is fully functional and productive * Enable close cooperation across all roles and functions * Shield the team from external interferences | Tan,Ngo Ngoc |
| **Secretary** | - Record the content of group meetings and activities of the member | Kien, Le Trung |
| **Reviewer** | - Review documents | All Members |
| **Developer** | - Researching, designing, implementing and managing software.  - Testing or evaluating new software. | All Members |
| **Analyzer** | * Gather user stories. * Analysis user story to do specify Document. | All Members |
| **Tester** | - Make sure the product functions properly.  - All responsibilities of test planning.  - Develop test cases and prioritize testing activities.  - Execute all the test case and report defects, define severity and priority for each defect. | All Members |
| **Mentor** | -Guide on the process.  -Monitoring all activities of Team.  -Help with anything. | MSc Huy, Truong Dinh |

## Communication Methodology:

### Table 3: Communication Methodology.

|  |  |  |  |
| --- | --- | --- | --- |
| **Audience/ Attendees** | **Topic/ Deliverable** | **Frequency** | **Method** |
| **Mentor and Team member** | Project Progress Review | Weekly | Meeting, Email, Zalo |
| **Team Member** | Project Progress Review and Daily Meeting | Daily | Trello, GitHub, Zoom |

## Communication and Report:

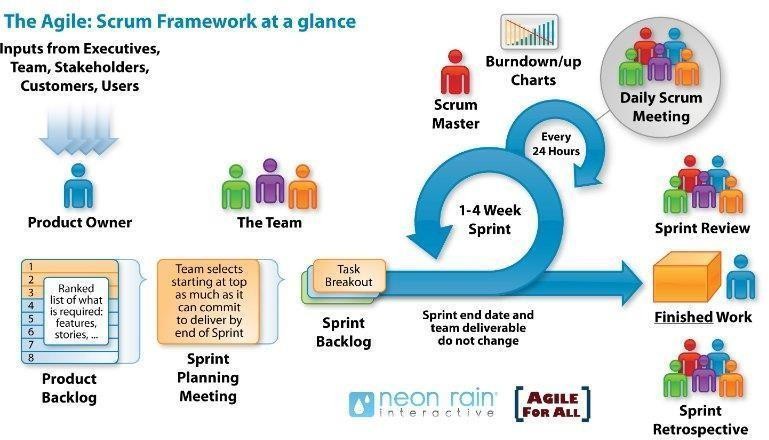
### Table 4: Communication and Report.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of communication** | **Methods, tools** | **Frequency** | **Information** | **People** |
| **Communication among in group** | | | | |
| **Scrum meeting** | Face to face or Hangouts | Every two day | Informed about what was done in the last 24 hours, working on plans for today, the difficulties encountered and the solutions required, just meeting 10-15 minutes. | Project team |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sprint Planning Meeting** | Meet face to face | 15-20 days | All members in team together to analyze the requirements, functions, working on the sprint going to do, planning and design for the sprint. | Project team |
| **Retrospective meeting** | Meet face to face | 15-20 days | Complete documentation. For each stage, sharing materials, given the strengths and weaknesses for each. Period for each member and the solution calculated measurement project. | Project team and Mentor |
| **Demo** | Meeting online | Every day | A web-based task tracking system. To manage or divide task, report bugs/issues. | Project team. |

# Development Process:

**Scrum Process**



* Scrum is an iterative and incremental agile software development framework for managing software projects and product or application development.
* Scrum focuses on project management institutions where it is difficult to plan.
* Mechanisms of empirical process control, where feedback loops that constitute the core management technique are used as opposed to traditional command-and- control management.
* Its approach to planning and managing projects is by bringing decision-making authority to the level of operation properties and certainties.

Benefit of the methodology:

− Project can respond easily to change.

− Problems are identified early.

− Customers get the most beneficial work first.

− Work done will better meet the customer’s needs.

− Improved productivity.

− Ability to maintain a predictable schedule for delivery.

# Schedule and Cost:

## Detailed Schedule:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | No. | Task Name | Start | Finish | Effort |  |
| **1** | **Initial** | **09/01** | **14/01** | **21 hrs** |
| **1.1** | **Gathering Requirement** | **09/01** | **10/01** | **6 hrs** |
| 1.1.1 | Get requirement from Mentor MSc Huy Truong Dinh | 09/01 | 09/01 | 2 hrs |
| 1.1.2 | Analyzing requirement | 10/01 | 10/01 | 4 hrs |
| **1.2** | **Create Proposal Document** | **11/01** | **14/01** | **15 hrs** |
| 1.2.1 | Product Definition | 11/01 | 12/01 | 3 hrs |
| 1.2.2 | Business Need | 12/01 | 12/01 | 2 hrs |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1.2.3 | Prior Art | 13/01 | 13/01 | 3 hrs |
| 1.2.4 | Proposed Solution | 13/01 | 13/01 | 3 hrs |
| 1.2.5 | Master Plan | 14/01 | 14/01 | 4 hrs |
| 2 | **Start Up** | 15/01 | 20/01 | 32 hrs |
| 2.1 | Project kick-off | 15/01 | 15/01 | 2 hrs |
| **2.2** | **Create Document** | **16/01** | **20/01** | **30 hrs** |
| 2.2.1 | Project’s Meeting | 16/01 | 16/01 | 4 hrs |
| 2.2.2 | Create User Stories | 16/01 | 16/01 | 4 hrs |
| 2.2.3 | Create Product Backlog | 17/01 | 17/01 | 6 hrs |
| 2.2.4 | Review Document | 18/01 | 18/01 | 4 hrs |
| 2.2.5 | Create Project Plan | 19/01 | 19/01 | 6 hrs |
| 2.2.6 | Create Architecture Design Document | 20/01 | 20/01 | 4 hrs |
| 2.2.7 | Review Document | 20/01 | 20/01 | 2 hrs |
| **3** | **Development** |  |  |  |
| **3.1** | **Sprint 1** | 21/01 | 06/02 | **86 hrs** |
| 3.1.1 | Sprint Planning Meeting | 21/01 | 21/01 | 4 hrs |
| 3.1.2 | Create Sprint Backlog | 22/01 | 22/01 | 2 hrs |
| 3.1.3 | Create Test Plan document for Sprint 1 | 22/01 | 22/01 | 2 hrs |
| 3.1.4 | Create Database document for Sprint 1 | 22/01 | 22/01 | 2 hrs |
| **3.1.5** | **Design** | 23/01 | 24/01 | **18 hrs** |
| 3.1.5.1 | Design interface of Home Page | 23/01 | 23/01 | 2 hrs |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.1.5.2 | Design interface of Register | 23/01 | 23/01 | 4 hrs |
| 3.1.5.3 | Design interface of Login | 23/01 | 23/01 | 4 hrs |
| 3.1.5.4 | Design a list of all phone types | 24/01 | 24/01 | 4 hrs |
| 3.1.5.5 | Shopping Cart design (look up, add, edit, delete) | 24/01 | 24/01 | 4 hrs |
| **3.1.6** | **Coding** | **25/01** | **02/02** | **40 hrs** |
| 3.1.6.1 | Code interface of Home Page | 25/01 | 26/01 | 12 hrs |
| 3.1.6.2 | Code interface of Register | 27/01 | 27/01 | 4 hrs |
| 3.1.6.3 | Code interface of Login | 28/01 | 28/01 | 4 hrs |
| 3.1.6.4 | Code a list of all phone types | 29//01 | 30/01 | 10 hrs |
| 3.1.6.5 | Code Shopping Cart (look up, add, edit, delete) | 31/02 | 02/02 | 10 hrs |
| **3.1.7** | **Testing & Fix Bug** | 03/02 | 04/02 | **hrs** |
| 3.1.7.1 | Test interface of Home Page | 03/02 | 03/02 | 2 hrs |
| 3.1.7.2 | Test interface of Register | 03/02 | 03/02 | 2 hrs |
| 3.1.7.3 | Test interface of Login | 03/02 | 03/02 | 2 hrs |
| 3.1.7.4 | Test a list of all phone types | 04/02 | 04/02 | 4 hrs |
| 3.1.7.5 | Test Shopping Cart (look up, add, edit, delete) | 04/02 | 04/02 | 4 hrs |
| **3.1.8** | **Release Sprint 1** | **05/02** | **06/02** | **4 hrs** |
| 3.1.8.1 | Sprint 1 Review Meeting | 05/02 | 05/02 | 2 hrs |
| 3.1.8.2 | Sprint 1 Retrospective | 06/02 | 06/02 | 2 hrs |
| **3.2** | **Sprint 2** | **07/02** | **23/02** | **104 hrs** |
| 3.2.1 | Sprint Planning Meeting | 07/02 | 07/02 | 4 hrs |
| 3.2.2 | Create Sprint Backlog | 07/02 | 07/02 | 2 hrs |
| 3.2.3 | Create Test Plan document for Sprint 2 | 08/02 | 08/02 | 2 hrs |
| 3.2.4 | Create Database document for Sprint 2 | 08/02 | 08/02 | 2 hrs |
| **3.2.5** | **Design** | 09/02 | 11/02 | **18 hrs** |
| 3.2.5.1 | Design search function | 09/02 | 09/02 | 4 hrs |
| 3.2.5.2 | Design filter function (phone configuration, price, brand,...) | 09/02 | 09/02 | 4 hrs |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.2.5.3 | Design ordering function | 10/02 | 10/02 | 4 hrs |
| 3.2.5.4 | Design payment function | 10/02 | 10/02 | 4 hrs |
| 3.2.5.5 | Design viewing and commenting functions | 10/02 | 10/02 | 2 hrs |
| **3.2.6** | **Coding** | 11/02 | 19/02 | **52 hrs** |
| 3.2.6.1 | Code search function | 11/02 | 12/02 | 12 hrs |
| 3.2.6.2 | Code filter function (phone configuration, price, brand,...) | 13/02 | 14/02 | 10 hrs |
| 3.2.6.3 | Code ordering function | 15/02 | 16/02 | 10 hrs |
| 3.2.6.4 | Code payment function | 17/02 | 18/02 | 12 hrs |
| 3.2.6.5 | Code viewing and commenting functions | 19/02 | 19/02 | 8 hrs |
| **3.2.7** | **Testing & Fix Bug** | 20/02 | 22/02 | **20 hrs** |
| 3.2.7.1 | Test search function | 20/02 | 20/02 | 2 hrs |
| 3.2.7.2 | Test filter function (phone configuration, price, brand,...) | 21/02 | 21/02 | 6 hrs |
| 3.2.7.3 | Test ordering function | 21/02 | 21/02 | 4 hrs |
| 3.2.7.4 | Test payment function | 22/02 | 22/02 | 4 hrs |
| 3.2.7.5 | Test viewing and commenting functions | 22/02 | 22/02 | 4 hrs |
| **3.2.8** | **Release Sprint 2** | 23/02 | 23/02 | **4 hrs** |
| 3.2.8.1 | Sprint 2 Review Meeting | 23/02 | 23/02 | 2 hrs |
| 3.2.8.2 | Sprint 2 Retrospective | 23/02 | 23/02 | 2 hrs |
| **3.3** | **Sprint 3** | **24/02** | **08/03** | **98 hrs** |
| 3.3.1 | Sprint Planning Meeting | 24/02 | 24/02 | 4 hrs |
| 3.3.2 | Create Sprint Backlog | 24/02 | 24/02 | 2 hrs |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.3.3 | Create Test Plan document for Sprint 3 | 25/02 | 25/02 | 2 hrs |
| 3.3.4 | Create Database document for Sprint 3 | 25/02 | 25/02 | 2 hrs |
| **3.3.5** | **Design** | **26/02** | **27/05** | **16 hrs** |
| 3.3.5.1 | Admin interface design | 26/02 | 26/02 | 2 hrs |
| 3.3.5.2 | Design phone management functions (update, add, edit, delete) | 26/02 | 26/02 | 6 hrs |
| 3.3.5.3 | Design statistical management functions for Admin | 27/02 | 27/02 | 2 hrs |
| 3.3.5.4 | Design transaction history management function (User and Admin) | 27/02 | 27/02 | 4 hrs |
| 3.3.5.5 | Design customer management functions | 27/02 | 27/02 | 2 hrs |
| **3.3.6** | **Coding** | **28/02** | **04/02** | **56 hrs** |
| 3.3.6.1 | Code Admin interface | 28/02 | 28/02 | 10 hrs |
| 3.3.6.2 | Code phone management functions (update, add, edit, delete) | 29/02 | 1/03 | 16 hrs |
| 3.3.6.3 | Code statistical management functions for Admin | 02/03 | 02/03 | 12 hrs |
| 3.3.6.4 | Code transaction history management function (User and Admin) | 03/03 | 03/03 | 10 hrs |
| 3.3.6.5 | Code customer management functions | 04/03 | 04/03 | 8 hrs |
| **3.3.5** | **Testing & fix Bug** | **05/03** | **06/03** | **12 hrs** |
| 3.3.7.1 | Test Admin interface | 05/03 | 05/03 | 2 hrs |
| 3.3.7.2 | Test phone management functions (update, add, edit, delete) | 05/03 | 05/03 | 4 hrs |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3.3.7.3 | Test statistical management functions for Admin | 06/03 | 06/03 | 2 hrs |
| 3.3.7.4 | Test transaction history management function (User and Admin) | 06/03 | 06/03 | 2 hrs |
| 3.3.7.5 | Test customer management functions | 06/03 | 06/03 | 2 hrs |
| **3.3.6** | **Release Sprint 3** | **07/03** | **08/03** | **4 hrs** |
| 3.3.6.1 | Sprint 3 Review Meeting | 07/03 | 07/03 | 2 hrs |
| 3.3.6.2 | Sprint 3 Retrospective | 08/03 | 08/03 | 2 hrs |

### Table 5: Detailed Schedule.

## Cost

* + 1. **Cost Person/Hours**

|  |  |  |
| --- | --- | --- |
| **Full Name** | **Role** | **Salary Rate (USD/hour)** |
| Tan,Ngo Ngoc | Scrum Master | 2 |
| Kien, Le Trung | Team Member | 2 |
| Nam, Luu Hai | Team Member | 2 |
| Van, Nguyen Nhu | Team Member | 2 |

### Table 1. Cost person/hours

* + 1. **Total Cost Estimate**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Criteria** | **Price** | **Total (USD)** |
| 1 | Working hours | 2 | 2700 |
| 2 | Other cost | 100 | 400 |
|  | | | 3100 |

### Table 2. Total cost estimation

|  |  |  |
| --- | --- | --- |
| **Description** | **Amount** | **Unit** |
| Number of members | 4 | Person |
| Number of working hours per day | 3 | Hours |
| The cost per hour per member | 2 | USD |
| The number of working days | 90 | Days |

**-** The explanation for the table:

* Amount of working hours = 4 members \* 3 hours \* 90 days
* Other cost = 4 members \* 100 USD

# Project Risk:

***Table 7: Rating for likelihood and seriousness for each risk.***

|  |  |  |  |
| --- | --- | --- | --- |
| **RATING FOR LIKELIHOOD AND SERIOUSNESS FOR EACH RISK** | | | |
| **L** | Rated as Low | **E** | Rated as Extreme (Used for Seriousness only) |
| **M** | Rated as Medium | **NA** | Not Assessed |
| **H** | Rated as High |  |  |

***Table 8: Project Risk.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Risk** | **Definition** | **Level** | **Likelihoo d** | **Mitigation Strategy** |
| Estimates of project planning | The plan may be delayed for the initial estimate of the project. | L | L | Analysis and assessment of the scale.  Reduce requirements. |
| Requirements | Internal contradictions that may exist in the request.  Important requirements may be missing from the formal requirements specification. | H | H | Uniform requirements prior to analysis. |
| Estimated project schedule | Time sort of work. | E | E | Time project was created to be updated and evaluated regularly. |
| Programming experience | Programming Languages and technology | M | L | Experience sharing used to reduce the research time. |
| Technical processes | The standard procedure cannot meet the requirements of specific solutions. | L | M | Analysis of requirements and processes to ensure |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | The new process may be required.  The process can be improved and more efficient. |  |  | appropriate levels.  If the new process is needed, we need to evaluate this response has improved over the old process. |
| Network | Block by Limited Bandwidth | H | H | Upgrade transmission line network |
| Time | Project implementation period is too short, so our team cannot complete this project on a short time.  During project implementation, our team to learn and have more work to do, our team cannot focus all their time to carry out this project. | H | M | Reduce time and increase individual personal time working in their stay on the 7th day and Sunday. |
| Project Management | Project management system may not be sufficient to support the requirements of the project. | L | H | Discuss with the group to offer solutions and consistent accuracy. |

# Deliverables

***Table 9: Deliverables***

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Document** | **Deadline** | **File Name** |
| 1 | Proposal Document. | 08 –Mar – 2024 | C2SE.12\_Proposal\_ LET\_ver1.2.docx |
| 2 | Project Plan Document | 12 –Mar – 2024 | C2SE.12\_ProjectPlan\_LET\_ver1. 1.docx |