

**CAPSTONE PROJECT 1**

**PROJECT PLAN DOCUMENT**

Version 1.0

Date: September 15, 2019

**ROOMY**

**PROJECT TEAM** : BLUE TEAM

**MENTOR** : MSc. VO VAN SON

**TEAM’S MEMBER** : HUYNH QUOC NHAT

LE HOANG QUOC

HO TRUNG ANH

HUYNH VU HA LAN

HUYNH THI THANH VAN

**INTERNATIONAL SCHOOL**

**Project Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
| **Project Tittle** | ROOMY | | | |
| **Start Date** | Aug 1, 2018 | | **End Date** | Dec 05, 2018 |
| **Lead Institution** | International School, Duy Tan University | | | |
| **Project Mentor & contact details** | Msc. Vo Van Son  Email: [sonpvs@duytan.edu.vn](mailto:sonpvs@duytan.edu.vn)  Tel: 01675373265 | | | |
| **Scrum Master & contact details** | Huynh Vu Ha Lan  Email: [huynhvuhalan.97@gmail.com](mailto:huynhvuhalan.97@gmail.com)  Tel: 0989342173 | | | |
| **Team members** | **Name** | **Email** | | **Tel** |
| Le Hoang Quoc | [quocle28292@gmail.com](mailto:quocle28292@gmail.com) | | 01657708105 |
| Huynh Quoc Nhat | [huynhquocnhat97@gmail.com](mailto:huynhquocnhat97@gmail.com) | | 0905740256 |
| Ho Trung Anh | [hotrunganhht1912@gmail.com](mailto:hotrunganhht1912@gmail.com) | | 09055258534 |
|  | Huynh Thi Thanh Van | [thanhvandb97@gmail.com](mailto:thanhvandb97@gmail.com) | | 01229444661 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **DOCUMENT NAME** | | |
| **Document Title** | Project plan | | |
| **Author(s)** | Blue Team | | |
| **Role** |  | | |
| **Date** | 22– Aug– 2018 | **File name:** | Project Plan v1.0 |
| **URL** |  | | |
| **Access** |  | | |

REVISION HISTORY

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Person(s)** | **Date** | **Description** |
| **1.0** | Huynh Vu Ha Lan | 15-Sep-2017 | Create Project plan document |

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Approval**  The following signatures are required for approval of this document | | | |
| **Mentor & Customer** | MSc. Vo Van Son | **Signature:** |  |
| **Date:** |  |
| **Scrum Master** | Huynh Vu Ha Lan | **Signature:** |  |
| **Date:** |  |
| **Product Owner** | Huynh Thi Thanh Van | **Signature:** |  |
| **Date:** |  |
| **Team Member** | Le Hoang Quoc | **Signature:** |  |
|  | **Date:** |  |
| Huynh Quoc Nhat | **Signature:** |  |
|  | **Date:** |  |
| Ho Trung Anh | **Signature:** |  |
|  | **Date:** |  |

Table of Contents

[1. Introduction: 6](#_Toc491091173)

[1.1. Purpose: 6](#_Toc491091174)

[1.2. Project Overview: 6](#_Toc491091175)

[2. Team Organization: 6](#_Toc491091176)

[2.1. Scrum Team Information: 6](#_Toc491091177)

[2.2. Role and Responsibility: 6](#_Toc491091178)

[2.3. Communication Methodology: 8](#_Toc491091179)

[2.4. Communication and Report: 8](#_Toc491091180)

[3. Schedule and Cost: 9](#_Toc491091181)

[3.1. Detailed Schedule: 9](#_Toc491091182)

[3.2. Cost: 10](#_Toc491091183)

[3.2.2. Total Cost Estimate 10](#_Toc491091184)

[4. Development Process: 10](#_Toc491091185)

[5. Work Breakdown Structure: 14](#_Toc491091186)

[6. Deliverables: 15](#_Toc491091187)

1. **Introduction:**
   1. **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 an expense management application on time, at the request and plan.

* 1. **Project Overview:**

Reference to [Proposal\_v1.2.docx](../1_Proposal/Proposal_v1.2.docx).

* 1. **Project Deliverable:**

Project will be implemented for user and business

1. **Team Organization:**
   1. **Scrum Team Information:**

***Table 1: Scrum Team Organization.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Full Name** | **Phone** | **Email** | **Position** |
| PhanVan Son | 0905151655 | [sonpvs@duytan.edu.vn](mailto:sonpvs@duytan.edu.vn) | Mentor |
| Huynh Quoc Nhat | 0905740256 | [huynhquocnhat97@gmail.com](mailto:huynhquocnhat97@gmail.com) | Scrum Master |
| Le Hoang Quoc | 01686230218 | [quocle28292@gmail.com](mailto:quocle28292@gmail.com) | Member |
| Hồ Trung Anh | 09055258534 | [hotrunganhht1912@gmail.com](mailto:hotrunganhht1912@gmail.com) | Member |
| Huỳnh Vũ Hạ Lan | 01675373265 | [huynhvuhalan.97@gmail.com](mailto:huynhvuhalan.97@gmail.com) | Member |
| Huynh Thi Thanh Van | 01229444661 | [thanhvandb97@gmail.com](mailto:thanhvandb97@gmail.com) | Member |

* 1. **Role and Responsibility:**

***Table 2: Role and Responsibilities.***

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibility** | **Name/Title** |
| **Product Owner** | * Understand the user and customers with their needs. * Collaborate with the development team. * Manage the stakeholders. * Describe the user experience and product features. * Provides detail user stories. | Huynh Thi Thanh Van |
| **Scrum Master** | * Communicate the value of Scrum * Teach the organization on Scrum to maximize business value * Attend all Scrum meetings * Preserve the integrity and spirit of the Scrum framework * Maintain the focus of the Team * Make the Team aware of impediments and facilitate efforts to resolve them * Serve as a coach and mentor to members of the Team * Respectfully hold the Team, Product Owner and Stakeholders accountable for their commitments * Continually work with the Team and business to find and implement improvements | Huynh Vu Ha Lan |
| **Secretary** | * Record the content of group meetings and activities of the member | Ho Trung Anh |
| **Reviewer** | * Review documents | Huynh Vu Ha Lan |
| **Developer** | * Analysis of the functions and requirements of the product. * Code and test. * Fix error. | All Members |
| **Analyzer** | * Gather user stories. * Analysis user story to do specify Document. | All Members |
| **Tester** | * Do the Test plan * Creation of test designs, test processes, test cases and test data. * Carry out testing as per the defined procedures. * Graph the results and make sure people know when test results decline. * Prepare all reports related to software testing carried out. * Analysis and evaluate the Test result. * Ensure that all tested related work is carried out as per the defined standards and procedures. | All Members |
| **Mentor** | * Guide on the process. * Monitoring all activities of Team. * Help with anything. | MSc, Vo Van Son |

* 1. **Communication Methodology:**

***Table 3: Communication Methodology.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Audience/ Attendees** | **Topic/ Deliverable** | **Frequency** | **Method** |
| **Mentor and Team member** | Project Progress Review | Weekly | Meeting, Email,  Google driver |
| **Product Owner, Scrum Master, Secretary** | Project Progress Review | Daily | Meeting, Conference Meeting |
| **Product Owner, Scrum Master, Secretary** | Explicit Requirement | When needed | Email, Facebook |
| **Scrum Master and Team Member** | Project Progress Review and Daily Meeting | Daily | Email, Facebook |

* 1. **Communication and Report:**

***Table 4: Communication and Report.***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type of communication** | **Methods, tools** | **Frequency** | **Information** | **People** |
| **Communication among in group** | | | | |
| **Daily Meetings** | Facebook or direct | 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 |
| **Task 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 ,Product Owner |
| **Task Review 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 ,Product Owner |
| **Task Management** | Google driver | Every day | A web based task tracking system. To manage or divide task, report bugs/issues. | Project team. |

1. **Schedule and Cost:**
   1. **Detailed Schedule:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Task Name** | Start | Finish | **Effort** | **Resource Names** |
| 1 | **Initial** | Aug 17, 18 | Aug 25, 18 | 50 hrs |  |
| 1.1 | Gathering Requirement | Aug 17, 18 | Aug 18, 18 | 8 hrs | Team |
| 1.2 | Create Proposal Document | Aug 20, 18 | Aug 25, 18 | 20 hrs | Team |
| 1.2.1 | Introduction | Aug 20, 18 | Aug 20, 18 | 2 hrs | Thanh Van |
| 1.2.2 | Project Overview | Aug 20, 18 | Aug 20, 18 | 4 hrs | Ha Lan |
| 1.2.3 | Stakeholder and User Descriptions | Aug 21, 18 | Aug 25, 18 | 8 hrs | Hoang Quoc |
| 1.2.4 | Technical Constrants and Development process | Aug 22, 18 | Aug 23, 18 | 3 hrs | Trung Anh |
| 1.2.5 | Scrum Process | Aug 23, 18 | Aug 23, 18 | 1 hrs | Trung Anh |
| 1.2.6 | Master plan | Aug 23, 18 | Aug 24, 18 | 2 hrs | Hoang Quoc |
| 1.2.7 | Organization management | Aug 24, 18 | Aug 25, 18 | 2 hrs | Quoc Nhat |
| 2 | **Start Up** | Aug 25, 18 | Sep 05, 18 | 45 hrs |  |
| 2.1 | Project’s Meeting | Aug 25, 18 | Aug 25, 18 | 5 hrs | Team |
| 2.2 | Create User Stories Document | Aug 26, 18 | Aug 28, 18 | 12 hrs | Van, Quoc, Nhat |
| 2.3 | Create Product Backlog Document | Aug 27, 18 | Aug 29, 18 | 8 hrs | Ha Lan, Trung Anh |
| 2.4 | Review Document | Aug 29, 18 | Aug 29, 18 | 6 hrs | Team |
| 2.5 | Create Project Plan Document | Aug 30, 18 | Aug 31, 17 | 6 hrs | Hoang Quoc |
| 2.7 | Create Architecture Design Document | Sep 4, 18 | Sep 5, 18 | 5 hrs | Nhat, Van |
| 2.8 | Review Document | Sep 5, 18 | Sep 5, 18 | 3 hrs | Ha Lan |
| **3** | **Development** | Sep 6, 18 | Nov 30, 18 |  |  |
| **3.1** | **Sprint 1 (Renter)** | Sep 6, 18 | Oct 3, 18 | **113 hrs** |  |
| 3.1.1 | Sprint Planning Meeting | Sep 6, 18 | Sep 6, 18 | 4 hrs | Team |
| 3.1.2 | Daily Meeting | Sep 6, 18 | Oct 3, 18 | 15 mins | Team |
| 3.1.3 | Create Sprint Backlog | Sep 7, 18 | Sep 7, 18 | 3 hrs | Ha Lan |
| 3.1.4 | Create Test Plan document for Sprint 1 | Sep 8, 18 | Sep 8, 18 | 2 hrs | Quoc Nhat |
| 3.1.5 | Create Database document | Sep 8, 18 | Sep 12, 18 | 3 hrs | Trung Anh, Hoang Quoc |
| 3.1.6 | Review Database document | Sep 12, 18 | Sep 12,18 | 3 hrs | Team |
| **3.1.7** | **Design user interface** |  |  | **7.5 hrs** |  |
| 3.1.7.1 | Design user interface of Home page | Sep 13, 18 | Sep 13, 18 | 2 | Thanh Van, Ha Lan |
| 3.1.7.2 | Design user interface of Register Account | Sep 14, 18 | Sep 14, 18 | 0.5 | Hoang Quoc |
| 3.1.7.3 | Design user interface of Login | Sep 14, 18 | Sep 14, 18 | 1 | Trung Anh |
| 3.1.7.4 | Design user interface of View Accommodation Information Detail | Sep 15, 18 | Sep 15, 18 | 3 | Hoang Quoc, Quoc Nhat |
| 3.1.7.5 | Design user interface of Booking Accommodation | Sep 15, 18 | Sep 15, 18 | 1 | Trung Anh |
| **3.1.8** | **Test Design Interface** | **Sep 16, 18** | **Sep 17, 18** | **8** |  |
| 3.1.8.1 | Test Design user interface of Home page | Sep 16, 18 | Sep 16, 18 | **2** | Hoang Quoc |
| 3.1.8.2 | Test Design user interface of Register Account | Sep 16, 18 | Sep 16, 18 | **1** | Trung Anh |
| 3.1.8.3 | Test Design user interface of Login | Sep 17, 18 | Sep 17, 18 | 1 | Quoc Nhat |
| 3.1.8.4 | Test Design user interface of View Accommodation | Sep 17, 18 | Sep 17, 18 | 2 | Thanh Van |
| 3.1.8.5 | Test Design user interface of Booking Accommodation | Sep 17, 18 | Sep 17, 18 | 2 | Ha Lan |
| **3.1.9** | **Coding** |  |  |  |  |
| 3.1.9.1 | Code front-end for Home page | Sep 17, 18 | Sep 17, 18 | **3** | Quoc Nhat |
| 3.1.9.2 | Code back-end for Home page | Sep 17, 18 | Sep 18, 18 | **4.5** | Quoc Nhat |
| 3.1.9.3 | Code front-end for Register Account | Sep 17, 18 | Sep 17, 18 | **1.5** | Thanh Van |
| 3.1.9.4 | Code back-end for Register Account | Sep 17, 18 | Sep 17, 18 | **4** | Trung Anh |
| 3.1.9.5 | Code front-end for Login | Sep 18, 18 | Sep 18, 18 | **1.5** | Hoang Quoc |
| 3.1.9.6 | Code back-end for Login | Sep 19, 18 | Sep 20, 18 | **2** | Hoang Quoc |
| 3.1.9.7 | Code front-end View Accommodation | Sep 19, 18 | Oct 20, 18 | **3** | Quoc Nhat |
| 3.1.9.8 | Code Back-end for View Accommodation | Sep 20, 18 | Sep 22, 18 | **4** | Trung Anh |
| 3.1.9.9 | Code front-end Booking Accommodation | Sep 20, 18 | Sep 21, 18 | **2** | Hoang Quoc |
| 3.1.9.10 | Code back-end Booking Accommodation | Sep 21, 18 | Sep 22, 18 | **3** | Hoang Quoc |
| **3.1.10** | **Testing** |  |  | **6** |  |  |  |  |  |  |
| 3.1.10.1 | Design Test Case for Homepage | Sep 23, 18 | Sep 23, 18 | 2 | Ha Lan |  |  |  |  |  |
| 3.2.10.2 | Design Test Case for Register | Sep 23, 18 | Sep 23, 18 | 1 | Ha Lan |  |  |  |  |  |
| 3.1.10.3 | Design Test Case for Login | Sep 23, 18 | Sep 23, 18 | 1 | Hoang Quoc |  |  |  |  |  |
| 3.1.10.4 | Design Test Case for View Accommodation | Sep 23, 18 | Sep 23, 18 | 2 | Hoang Quoc |  |  |  |  |  |
| 3.1.10.5 | Design Test Case for Booking Accommodation | Sep 22, 18 | Sep 23, 18 | 2 | Thanh Van |  |  |  |  |  |
| **3.2.11** | **Fix Bug & Release** |  |  |  |  |
| 3.2.11.1 | Implement Test Case | Sep 24, 18 | Sep 27, 18 | 25 | Team |
| 3.1.11.2 | Fix bugs and Report | Sep 27, 18 | Sep 30, 18 | 25 | Team |
| 3.1.11.3 | Retest | Oct 1, 18 | Oct 2, 18 | 15 | Team |
| 3.1.11.4 | Closing | Oct 3, 18 | Oct 3, 18 | 4 | Team |
| **3.2** | **Sprint 2(Renter and Laldlord)** | Oct 4, 18 | Oct 31, 18 |  |  |
| 3.2.1 | Sprint Planning Meeting | Oct 4, 18 | Oct 4, 18 | 4 hrs | Team |
| 3.2.2 | Create Sprint Backlog | Oct 5, 18 | Oct 5, 18 | 1 hrs | Quoc Nhat |
| 3.2.3 | Create Test Plan document for Sprint 2 | Oct 5, 18 | Oct 5, 18 | 1 hrs | Quoc Nhat |
| **3.2.4** | **Design user interface** |  |  |  |  |
| 3.2.4.1 | Design user interface of Post to find Rommate (Renter) | Oct 6, 18 | Oct 6, 18 | 2 hrs | Quoc Nhat |
| 3.2.4.2 | Design user interface of Search accommodation information( Renter) | Oct 6, 18 | Oct 6, 18 | 1 hrs | Thanh Van |
| 3.2.4.3 | Design user interface of Add accommodation information(Landlord) | Oct 6, 18 | Oct 7, 18 | 2 hrs | Quoc Nhat |
| 3.2.4.4 | Design user interface of Update accommodation information(Landlord) | Oct 6, 18 | Oct 7, 18 | 0.5 hrs | Ha Lan |
| 3.2.4.5 | Design user interface of Delete accommodation information (Landlord) | Oct 6, 18 | Oct 7, 18 | 0.5 hrs | Ha Lan |
| 3.2.4.6 | Design user interface of Search accommodation information (Landlord) | Oct 7, 18 | Oct 7, 18 | 1 hrs | Thanh Van |
| 3.2.4.7 | Design user interface of Search Post (landlord) | Oct 7, 18 | Oct 7, 18 | 1 hrs | Quoc Nhat |
| 3.2.4.8 | Design user interface of Update Account | Oct 8, 18 | Oct 8, 18 | 0.5 hrs | Ha Lan |
| 3.2.4.9 | Design user interface of View Account Information | Oct 8, 18 | Oct 8, 18 | 0.5 hrs | Thanh Van |
| 3.2.4.10 | Design user interface of Post to find Rommate (Web, Renter) | Oct 6, 18 | Oct 6, 18 | 2 hrs | Hoang Quoc |
| 3.2.4.11 | Design user interface of Search Post(Web, Renter) | Oct 6, 18 | Oct 6, 18 | 1 hrs | Trung Anh |
| 3.2.4.12 | Design user interface of Post the accommodation (Landlord) | Oct 7, 18 | Oct 8, 18 | 3 hrs | Trung Anh |
| 3.2.4.13 | Design user interface of Update Post ( Landlord) | Oct 7, 18 | Oct 7, 18 | 0.5 hrs | Hoang Quoc |
| 3.2.4.14 | Design user interface of Delete Post (Landlord) | Oct 7, 18 | Oct 8, 18 | 0.5 hrs | Hoang Quoc |
| 3.2.4.15 | Design user interface of View Post | Oct 7,18 | Oct 8, 18 | 1hrs | Trung Anh |
| **3.2.5** | **Coding** |  |  |  |  |
| 3.2.5.1 | Code front-end of Post to find Rommate(Web,Renter) | Oct 9, 18 | Oct 9, 18 | 1 hrs | Quoc Nhat |
| 3.2.5.2 | Code back-end of Post to find Rommate(Web,Renter) | Oct 10, 18 | Oct 11, 18 | 1 hrs | Quoc Nhat |
| 3.2.5.3 | Code front-end of Search Post(Web, Renter) | Oct 9, 18 | Oct 10, 18 | 1 hrs | Thanh Van |
| 3.2.5.4 | Code back-end of Search Post(Web, Renter) | Oct 11, 18 | Oct 12, 18 | 1.5 hrs | Quoc Nhat |
| 3.2.5.5 | Code front-end of Post the accommodation (Landlord) | Oct 10, 18 | Oct 11, 18 | 1 hrs | Ha Lan |
| 3.2.5.6 | Code back-end of Post the accommodation (Landlord) | Oct 12, 18 | Oct 15, 18 | 2 hrs | Quoc Nhat |
| 3.2.5.7 | Code front-end of Update Post ( Landlord) | Oct 12, 18 | Oct 12, 18 | **1 hrs** | Thanh Van |
| 3.2.5.8 | Code back-end of Update Post ( Landlord) | Oct 13, 18 | Oct 14, 18 | **1.5 hrs** | Ha Lan |
| 3.2.5.9 | Code front-end of Delete Post (Landlord) | Oct 13, 18 | Oct 13, 18 | 1 hrs | Ha Lan |
| 3.2.6510 | Code back-end of Delete Post (Landlord) | Oct 14, 18 | Oct 14, 18 | 1 hrs | Thanh Van |
| 3.2.5.11 | Code front-end of View Post(Lordland) | Oct 15, 18 | Oct 15, 18 | 1 hrs | Ha Lan |
| 3.2.5.12 | Code back-end of Post(Lordland) | Oct 15, 18 | Oct 18, 18 | 1 hrs | Ha Lan |
| 3.2.5.13 | Code front-end of View Account Information | Oct 16, 18 | Oct 16, 18 | 1 hrs | Thanh Van |
| 3.2.5.14 | Code back-end View Account Information | Oct 16, 18 | Oct 17, 18 | 2 hrs | Ha Lan |
| 3.2.5.15 | Code front-end of Update Account | Oct 17, 18 | Oct 18, 18 | 3 hrs | Thanh Van |
| 3.2.5.16 | Code front-end of Update Account | Oct 19, 18 | Oct 20, 18 | 3 hrs | Ha Lan |
| **3.2.6** | **Testing** | Oct 19, 17 | Oct 22, 17 |  |  |
| 3.2.6.1 | Design Test Case for Post to find Rommate (Web, Renter) | Oct 19, 18 | Oct 19, 18 | 1 hrs | Hoang Quoc |
| 3.2.6.2 | Design Test Case for Search Post(Web, Renter) | Oct 19, 18 | Oct 19, 18 | 1 hrs | Quoc Nhat |
| 3.2.6.3 | Design Test Case for Post the accommodation (Landlord) | Oct 19, 18 | Oct 19, 18 | 2 hrs | Ha Lan |
| 3.2.6.4 | Design Test Case for Update Post ( Landlord) | Oct 19, 18 | Oct 19, 18 | 1 hrs | Thanh Van |
| 3.2.6.5 | Design Test Case for Delete Post (Landlord) | Oct 19, 18 | Oct 19, 18 | 1 hrs | Trung Anh |
| 3.2.6.6 | Design Test Case for View Post (Landlord) | Oct 20, 18 | Oct 20, 18 | 1.5 hrs | Trung Anh |
| 3.2.6.7 | Design Test Case for Search Post (landlord, web) | Oct 20, 18 | Oct 20, 18 | 1.5 hrs | Thanh Van |
| 3.2.6.8 | Design Test Case for Update Account(web) | Oct 20, 18 | Oct 21, 18 | 1 hrs | Thanh Van |
| 3.2.6.9 | Design Test Case for View Account Information (web) | Oct 21, 18 | Oct 21, 18 | 1 hrs | Ha Lan |
| **3.2.7** | **Fix Bug and Release** | Oct 22, 18 | Nov 2, 18 | **16 hrs** |  |
| 3.2.7.1 | Implement Test Case | Oct 22, 18 | Oct 26, 18 | 10 hrs | Team |
| 3.2.7.2 | Fix bugs and Report | Oct 26, 18 | Oct 29, 18 | 15 hrs | Team |
| 3.2.7.3 | Retest | Oct 29, 18 | Oct 30, 18 | 6.5 hrs | Team |
| 3.2.7.4 | Closing | Oct 31,18 | Oct 31, 18 | 3 hrs | Team |
| **3.3** | **Sprint 3** | Nov 1, 18 | Nov 24,18 |  |  |
| 3.3.1 | Sprint Planning Meeting | Nov 1, 18 | Nov 1, 18 | **4** | Team |
| 3.3.2 | Create Sprint Backlog | Nov 2, 18 | Nov 2, 18 | **2** | Ha Lan |
| 3.3.3 | Create Test Plan document for Sprint 3 | Nov 2, 18 | Nov 3, 18 | **2** | Thanh Van |
| **3.3.4** | **Design user interface** |  |  |  |  |
| 3.3.4.1 | Design user interface of View List Post (Admin, App) | Nov 4, 18 | Nov 4, 18 | **1** | Hoang Quoc |
| 3.3.4.2 | Design user interface of View List Report about Post (App,web) | Nov 4, 18 | Nov 4, 18 | **1** | Hoang Quoc, Trung Anh |
| 3.3.4.3 | Design user interface of Search Post(App) | Nov 4, 18 | Nov 4, 18 | **1** | Trung Anh |
| 3.3.4.4 | Design user interface of Accept new post( Admin, web) | Nov 4, 18 | Nov 4, 18 | 0.5 | Quoc Nhat |
| 3.3.4.5. | Design user interface of Login (Admin) | Nov 4, 18 | Nov 4, 18 | 0.5 | Quoc Nhat |
| 3.3.4.6 | Design user interface of Create Account (Admin) | Nov 4, 18 | Nov 4, 18 | 0.5 | Thanh Van |
| 3.3.4.7 | Design User Interface of Delete Account (Admin) | Nov 4, 18 | Nov 4, 18 | 0.5 | Thanh Van |
| 3.3.4.8 | Design user interface of Update Account(Users) | Nov 4, 18 | Nov 4, 18 | 0.5 | Ha Lan |
| 3.3.4.9 | Design user interface of View Account Information(Users) | Nov 4, 18 | Nov 5, 18 | 1 | Ha Lan |
| 3.3.4.10 | Design User Interface of Update Account (Admin) | Nov 5, 18 | Nov 5, 18 | 0.5 | Quoc Nhat |
| 3.3.4.11 | Design User interface of Rate Post (renter) | Nov 5, 18 | Nov 5, 18 | 0.5 | Hoang Quoc |
|  | Design User Interface of Comment Post (Renter) | Nov 5, 18 | Nov 5, 18 | 0.5 | Trung Anh |
| **3.3.5** | **Coding** |  |  |  |  |
| 3.3.5.1 | Code front-end View List Post (Admin, App) | Nov 5, 18 | Nov 5, 18 | **1** | Hoang Quoc |
| 3.3.5.2 | Code back-end of View List Post (Admin, App) | Nov 5, 18 | Nov 5, 18 | **1** | Hoang Quoc |
| 3.3.5.3 | Code front-end of View List Post (Admin, App) | Nov 5, 18 | Nov 5, 18 | **0.5** | Trung Anh |
| 3.3.5.4 | Code back-end of View List Post (Admin, App) | Nov 5, 18 | Nov 5, 18 | **1** | Hoang Quoc |
| 3.3.5.5 | Code front-end of Search Post(App) | Nov 5, 18 | Nov 5, 18 | **1** | Trung Anh |
| 3.3.5.6 | Code back-end of Search Post(App) | Nov 5, 18 | Nov 5, 18 | **1.5** | Trung Anh |
| 3.3.5.7 | Code front-end of Accept new post( Admin, web) | Nov 5, 18 | Nov 5, 18 | **1** | Quoc Nhat |
| 3.3.5.8 | Code back-end of Accept new post( Admin, web) | Nov 5, 18 | Nov 5, 18 | **1** | Quoc Nhat |
| 3.3.5.9 | Code front-end of Login (Admin) | Nov 5, 18 | Nov 5, 18 | **1** | Ha Lan |
| 3.3.5.10 | Code back-end of Login (Admin) | Nov 5, 18 | Nov 5, 18 | **1** | Ha Lan |
| 3.3.5.11 | Code front-end of Create Account (Admin) | Nov 5, 18 | Nov 5, 18 | **1** | Thanh Van |
| 3.3.5.12 | Code back-end of Create Account (Admin) | Nov 5, 18 | Nov 5, 18 | **1.5** | Thanh Van |
| 3.3.5.13 | Code front-end of Delete Account (Admin) | Nov 5, 18 | Nov 5, 18 | **1** | Ba Huy |
| 3.3.5.14 | Code back-end of Delete Account (Admin) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.15 | Code front-end of Update Account (User) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.16 | Code front-end of Update Acocount (Admin) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.17 | Code back-end Update Account (User) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.18 | Code Back-end of Update Account (Admin) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.19 | Code front-end of View Account Information (Users) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.20 | Code front-end of View Account Information (Admin) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.21 | Code back-end of View Account Information (Users) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.22 | Code back-end of View Account Information (Admin) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.23 | Code front-end of Rate Post (renter) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.24 | Code back-end of Rate Post (renter) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.25 | Code front-end of Comment Post (Renter) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.5.26 | Code front-end of Comment Post (Renter) | Nov 5, 18 | Nov 5, 18 |  |  |
| 3.3.6 | **Testing & Fix Bug** |  |  |  |  |
| 3.3.8 | Design Test Case for Register | 11/08/17 | 11/14/17 | **0.5** | Minh Nhat Nguyen |
| 3.3.10 | Design Test Case for Manage products | 11/09/17 | 11/18/17 | **0.5** | Ba Huy |
| 3.3.11 | Design Test Case for View transaction | Nov 9, 17 | 11/19/17 | **0.5** | Minh Nhat Nguyen |
| 3.3.12 | Design Test Case for send adds | Nov 8, 18 | 11/14/17 | **0.5** | Truong Tan Luan |
| 3.3.13 | **Release Sprint 3** | Nov 23, 17 | Nov 25, 17 |  |  |
| 3.3.14 | Sprint 3 Review Meeting | Nov 23, 17 | Nov 24, 17 | **1** | Team |
| 3.3.15 | Sprint 3 Retrospective | Nov 24, 17 | Nov 25, 17 | 1 | Team |

***Table 5: Detailed Schedule.***

* 1. **Cost:**
     1. **Cost Person/Hours**

|  |  |  |
| --- | --- | --- |
| **Full Name** | **Role** | **Salary Rate (USD/hour)** |
| Huynh Vu Ha Lan | Scrum Master | 1 |
| Le Hoang Quoc | Team Member | 1 |
| Huynh Quoc Nhat | Team Member | 1 |
| Ho Trung Anh | Team Member | 1 |
| Huynh Thi Thanh Van | Product Owner | 1 |

* + 1. **Total Cost Estimate**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Criteria** | **Price** | **Total (USD)** |
| 1 | Working hours | 1 |  |
| 2 | Gas cost support | 30 |  |
| 3 | Lunch cost support | 0.5 |  |
| 4 | PC’s depreciation | 37.5 |  |
|  | | |  |

|  |  |  |
| --- | --- | --- |
| **Description** | **Amount** | **Unit** |
| Number of members | 4 | Person |
| Number of working hour per day | 2 | Hours |
| The cost per hour per member | 1 | USD |
| Gas cost support per mount | 30 | USD |
| The duration of the project | 3 | Months |
| Lunch cost support per day | 0.5 | USD |
| Price of each computer | 600 | USD |
| The lifelong of each computer | 5 | Years |
| The time to use of each computer | 3 | Months |
| The number of working days | 100 | Days |

1. **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 ahead.
* 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.
* Customer gets most beneficial work first.
* Work done will better meet the customer’s needs.
* Improved productivity.
* Ability to maintain a predictable schedule for delivery.

**Project’s 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** | **Likelihood** | **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. | M | M | 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.  The new process may be required.  The process can be improved and more efficient. | L | M | Analysis of requirements and processes to ensure 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. |

1. **Work Breakdown Structure:**
2. **Deliverables:**

Table 9: Deliverables.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Document** | **Deadline** | **File Name** |
| 1 | Proposal Document. | 15 –Aug– 2017 | Proposal v1.1.docx |
| 2 | Project Plan Document & Schedule Plan. | 22–Aug– 2017 | Project Plan v1.0.docx |