.

**INTERNATIONAL SCHOOL**

**Project Clothers App**

**Project Plan**

**Project Code:**

**Document Code: v.1.1**

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**Group:** ……5……. Team

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**Approved by** *Nguyen Trung Thuan*

**Project - Mentor:**

Name **Thuan, Nguyen Trung** Signature Date

**PROJECT INFORMATION**

|  |  |  |  |
| --- | --- | --- | --- |
| **Document Title** | Project Plan | | |
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**RECORD OF CHANGE**

\*A - Added M - Modified D – Deleted

|  |  |  |  |
| --- | --- | --- | --- |
| **Effective Date** | **Changed Item** | **A\* M, D** | **Change Description** |
| 20/10/2024 | Project plan | A | Create Project plan |
| 25/01/2024 | Agile/ Scrum Process | A | Add detail Scrum Process |
| 30/10/2024 | Detail Schedule | M | Update task mission and schedule of sprint |
| 10/11/2024 | Project Milestone & Deliverables | M | Modified target sprint |
| 21/11/2024 | WBS | A | Add WBS |
| 27/11/2024 | WBS | M | Modified WBS |

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# PROJECT OVERVIEW

## Project Description

|  |  |  |  |
| --- | --- | --- | --- |
| **Project code** | CLO-App | **Contract type** | Internal Contract |
| **Customer** | Dr. Phan Thanh Nhan | **End-user** | delivery staff, sales staff  buyer, commodity manager |
| **Project Type** | Internal Project | **Division** | SE214.05 Team |
| **Project Category** | Development | **Scrum master** | Le Hai Dang |
| **Application type** | Web application | **Business domain** | Supports simplification and optimization of product management and purchasing processes in e-commerce. |

## Scope and Purpose

### Purpose

This document provides a summary of the project objectives, tasks, milestones, resources required, overall timing and progress, and budget allocations used and based on owners. owned. Organic. object. Export documents to build secure online auction website applications on time, on request and on schedule.

### Scope

Provide solutions to streamline the management of product inventories, customer orders, and payment processing while addressing challenges in communication between vendors and customers.

The focus of the project is to build a recommendation system that suggests relevant products to customers based on their preferences and purchase history, creating a personalized shopping experience. At the same time, administrative features will be integrated to offer a comprehensive view of business operations for store managers.

The project will develop this system within 90 days with a budget of $10,000 for a team of 6 members.

## Project Objectives

### Standard Objectives

|  |  |  |  |
| --- | --- | --- | --- |
| **Metrics** | **Unit** | **Committed** | **Note** |
| Start Date | 19/10/2024 | Completed on time | 5 Springs of the Scrum Process. |
| End Date | 12/12/2024 |
| Duration | 51 days | can be completed sooner if possible |
| Team Size | 6 persons | Commit to enough members in the implementation process. | 6 dev:  3 back-end,  3 front-end,  1 data analysis |
| The number of working hours per member | 110 hours | each member works at least 2 hours per day | May work less on Sundays |
| Number of work hours per day for one engineer | 4.3 hours | at least 15 hours per week | will work overtime if not on schedule |

### Specific Objectives

* **Functional goals:** Fulfill the requirements of vendors, customers, and warehouse managers to ensure seamless transactions and effective communication.
* **Strategic goals:**
* Within six months of product launch, attract at least 200 small and medium businesses to use the platform and build trust and satisfaction.
* Within one year, expand the product to include mobile and web platforms, aiming to onboard 500 businesses across various regions.
* Long-term goals are to establish high reliability and brand popularity, making the platform a leader in the online sales industry.
* **Business goals:** Achieve sales revenue of $12,000 within the first year of launch. Projected profits are expected to grow by 30% in the second year.
* **Quality goals:** Ensure system stability, minimize risks, and resolve issues promptly to maintain a smooth user experience.
* **Organizational goals:** Enhance team competencies, adopt modern e-commerce processes, and build expertise in scalable and secure technologies.

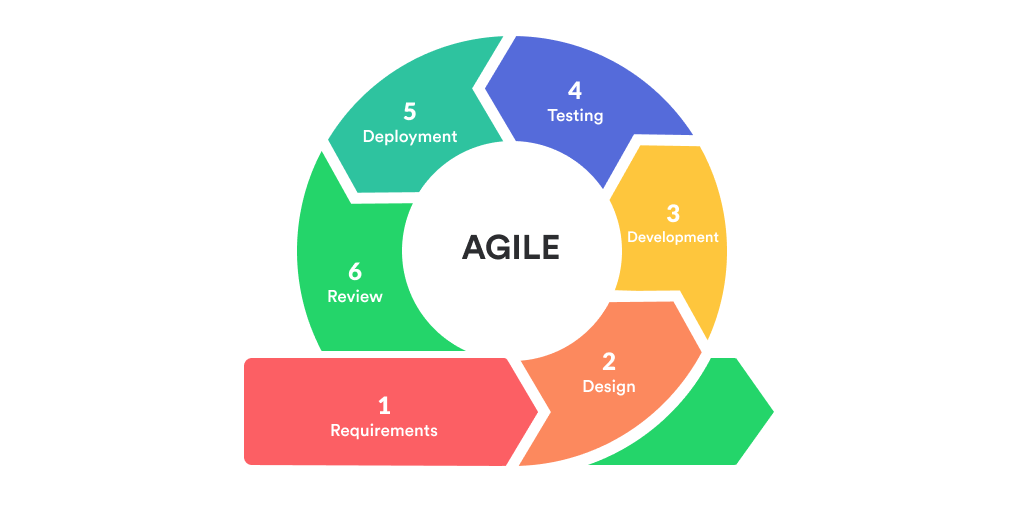
## Project Risk

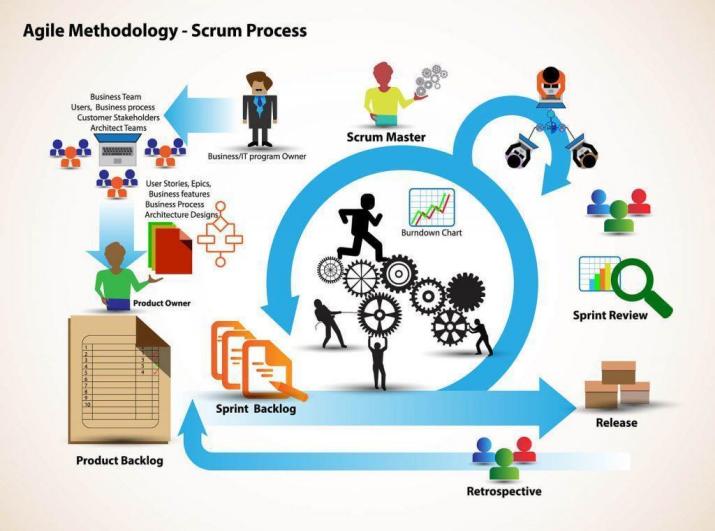
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Risk** | **Description** | **Probability** | **Impact** | **Mitigation Strategy** |
| **Security** | Hacked user information | 5 | 5 | Spend more time on security testing |
| **Performance** | The system is frozen for a short period of time | 5 | 5 | Spend a lot of time optimizing system integrations and testing on the server-cloud |
| **Security** | The projections are not uniform | 5 | 5 | Set the time for the system to back up data and receive notification-response |
| **Modifiability** | APIs often change in the future | 4 | 4 | Spend more time on maintenance and version updates |
| **Usability** | Users are unfamiliar with using CLO-App | 2 | 2 | The design will be simple and easy to understand, easy to use |

# PROJECT DEVELOPMENT APPROACH

## Technical Process

* + Operating System: Window, MacOS
  + Development Tools: Visual Studio Code,
  + Version Control System: GitHub
  + Language: JavaScript, Html/CSS
  + Framework: ReactJS, Nodejs
  + Database: Firebase

 “***Agile Methodology- the SCRUM PROCESS”***





### Reasons for selecting

* The Online Shopping Application is a dynamic e-commerce platform that is continuously updated and frequently gathers feedback from users, vendors, and stakeholders. As such, the SCRUM process is the most suitable project management method for this application. It is adaptable, allows for rapid changes, and enhances the ability to manage both project and team progress effectively, ensuring that features are delivered iteratively based on user needs and market demands.

### Agile Methodology

* What is Agile Methodology?

Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches. Instead of betting everything on a "big bang" launch, an agile team delivers work in small, but consumable, increments. Requirements, plans, and results are evaluated continuously so teams have a natural mechanism for responding to change quickly.

* [Agile Manifesto](https://agilemanifesto.org/):
  + Individuals and interactions over processes and tools
  + Working software over comprehensive documentation
  + Working software over comprehensive documentation
  + Responding to change over following a plan
* Agile Life Cycle:
  + Project Initiation
  + Planning
  + Development
  + Production
  + Retirement

### 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.
  + 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.

## Quality Management

### Estimates of Defects to be detected

**Pre-release review defects**

|  |  |  |
| --- | --- | --- |
| **Process** | **Planned found by review** | **Actual found by review** |
| **Requirement** | Not mentioned | NA |
| Requirement is not clear | NA |
| Complex requirements | Technology does not meet the problems of high complexity and related to user interests |
| Is changed | NA |
| **Design** | Rushed, not thorough | NA |
| Is changed | NA |
| Not user friendly | NA |
| **Coding** | Software complexity | NA |
| Poor documentation, not following the documentation | NA |
| Schedule pressure | NA |
| wrong code requires user | NA |
| Plain dumb mistakes | NA |
| **Total** | **12** | **1** |

### Measurements Program

|  |  |  |  |
| --- | --- | --- | --- |
| **Data to be collected** | **Purpose** | **Responsible** | **When** |
| Size: No. of KLOC// FP | Determine the cost of the project | SM | At the end of stages |
| Effort: 4 person/day | Estimate the amount of effort required to complete the project with inadequate, uncertain and no contradiction | Team members | Daily |
| Quality: No. defects detected | Identify causes of defects, improve processes to avoid repeating defects, improve product quality | Reviewer, Tester | Right after the review/test |
| Schedule | Complete the goal on time, meet the full working hours | SM | Weekly and at the end of stages |

## Unit Testing Strategy

The system is tested using Unit Testing, a testing technique that examines individual modules to ensure they function correctly and independently. This approach focuses on the functional correctness of each module. For the online clothing store application, unit testing will utilize both black box and white box testing techniques:

* **Black Box Testing**: Used to verify the user interface, input, and output, ensuring seamless navigation, correct processing of user actions, and appropriate responses.
* **White Box Testing**: Ensures each function behaves as expected by testing its internal logic and workflow.
* **Completion criteria:**

Acceptance criteria for product quality:

* Users can register, log in, and log out successfully.
* Users can browse and search for products by category, size, and price.
* Users can add items to the cart, view the cart, and complete the checkout process.
* Users can make payments using multiple payment methods (e.g., credit card, e-wallet).
* Users can view their order history and track delivery status.
* Admins can manage products, inventory, and orders efficiently.
* **Influences might include:**
* The need for additional resources such as a payment gateway for testing the checkout process.
* The requirement for a stable internet connection and compatible devices for end-to-end testing.
* **Testing may be stopped when:**
* The process becomes unproductive.
* A predefined level of test coverage is achieved.
* A sufficient number of errors have been identified and addressed.
* The allocated testing schedule is complete.

## Integration Testing Strategy

* The test is executed successfully when the combination of each module is unit tested and the functional test is combined. Once all the individual units are created and tested, we start combining the tested modules and start doing integration testing. The main goal here is to test the interfaces between units/modules.
* Testing may be stopped when:
* Out of funds
* Time up
* All test cases have been executed
* All defects have been fixed

## System Testing Strategy

* Tests performed successfully on a fully integrated system are based on an assessment of the system's compliance with its specific requirements.
* The test may be stopped when:
* Out of funds
* Time up
* All test cases have been executed
* All defects have been fixed

# ESTIMATION

## Effort

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Activity/Process** | **Total budgeted Effort Usage (pd)** | **Total % budgeted Effort Usage (%)** | **<Stage 1/ Sprint 1>** | | **<Stage 2/ Sprint 2>** | | **<Stage 3 / sprint 3>** | | **<Stage 4/ sprint 4>** | | **<Stage 5/ sprint 5>** | |
| **No.** | **%** | **No.** | **%** | **No.** | **%** | **No.** | **%** | **No.** | **%** |
| Requirement | 252 | 5 % | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% |
| Design | 252 | 5 % | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% |
| Coding | 2520 | 50 % | 504 | 10% | 504 | 10% | 504 | 10% | 504 | 10% | 504 | 10% |
| Unit Testing | 252 | 5 % | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% |
| Testing | 504 | 10% | 100.8 | 2% | 100.8 | 2% | 100.8 | 2% | 100.8 | 2% | 100.8 | 2% |
| Deployment | 151.2 | 3% | 30.24 | 0.6% | 30.24 | 0.6% | 30.24 | 0.6% | 30.24 | 0.6% | 30.24 | 0.6% |
| Support for Acceptance Test | 252 | 5% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% |
| Project Planning | 352.8 | 7% | 70.56 | 1.4% | 70.56 | 1.4% | 70.56 | 1.4% | 70.56 | 1.4% | 70.56 | 1.4% |
| Project monitoring | 100.8 | 2% | 20.16 | 0.4% | 20.16 | 0.4% | 20.16 | 0.4% | 20.16 | 0.4% | 20.16 | 0.4% |
| Quality Assurance | 252 | 5% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% | 50.4 | 1% |
| Training | 151.2 | 3% | 30.24 | 0.6% | 30.24 | 0.6% | 30.24 | 0.6% | 30.24 | 0.6% | 30.24 | 0.6% |
| **Total** | **5040** | **100%** | **1008** | **20%** | **1008** | **20%** | **1008** | **20%** | **1008** | **20%** | **1008** | **20%** |

## Schedule

### *Project Milestone & Deliverables*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Task name** | **Time** | **deliverables that belong to the Stage** | **Description** |
| 1 | Sprint 1 | 21 days | Interface, Create database | Release the first look of the product (version 1.0) with functions which have been committed in the contract |
| 2 | Sprint 2 | 21 days | Web, database design  (version 1.0) | Release the update for version 1.0 (version 1.1) with functions which have been approved by product owner |
| 3 | Sprint 3 | 28 days | Update  Web  (version 1.1, 1.2, ...) | Release the next update for version 1.1 (version 1.2) with functions which have been approved by product owner |
| 4 | Sprint 4 | 28 days | Update Web, Test (version 1.3,1.1,...) | Release updates of version 1.2 (version 1.3) through testing functions, systems, development via mobile app for Product Owner |

### *Detailed Schedule*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No** | **Task name** | **Duration (day(s))** | **Start** | **Finish** | **Resource names** |
| **1** | **Fit Style Mobile Application** | **110** | **19/10/2024** | **19/10/2024** | **All member** |
| **1.1** | **Initial** | **19** | **21/10/2024** | **21/10/2024** | **All member** |
| 1.1.1 | Project kick off meeting | 3 | 22/10/2024 | 22/10/2024 | All member |
| 1.1.2 | Discuss about project ideal | 6 | 25/10/2024 | 25/10/2024 | All member |
| 1.1.3 | Create Proposal document | 1 | 26/10/2024 | 26/10/2024 | All member |
| 1.1.4 | Create User Story document | 1 | 27/10/2024 | 27/10/2024 | All member |
| 1.1.5 | Create User Interface document | 1 | 29/10/2024 | 29/10/2024 | All member |
| 1.1.6 | Create Database document | 1 | 30/10/2024 | 30/10/2024 | All member |
| 1.1.8 | Create Product Backlog document | 1 | 02/11/2024 | 02/11/2024 | All member |
| 1.1.9 | Create Project Plan document | 2 | 03/11/2024 | 03/11/2024 | All member |
| 1.1.10 | Create Architecture document | 1 | 04/11/2024 | 04/11/2024 | All member |
| 1.1.11 | Pre-study | 2 | 05/11/2024 | 05/11/2024 | All member |
| **1.2** | **Development** | **98** | 07/11/2024 | 07/11/2024 | **All member** |
| **1.2.1** | **Sprint 1** | **21** | 08/11/2024 | 08/11/2024 | **All member** |
| **1.2.1.1** | **Sprint planning meeting** | **1** | 09/11/2024 | 09/11/2024 | **All member** |
| **1.2.1.2** | **Create Sprint Backlog for Sprint 1** | **1** | 11/11/2024 | 11/11/2024 | **All member** |
| **1.2.1.3** | **Create Test Plan document for Sprint 1** | **1** | 12/11/2024 | 12/11/2024 | **All member** |
| **1.2.1.4** | **Design UI** | **1** | 15/11/2024 | 15/11/2024 | **Cong** |
| 1.2.1.4.1 | UI for the register page | 1 | 17/11/2024 | 17/11/2024 | Cong |
| 1.2.1.4.2 | UI for login, forgot password page, chanpassword | 1 | 18/11/2024 | 18/11/2024 | Cong |
| 1.2.1.4.3 | UI for the home page the system | 1 | 19/11/2024 | 19/11/2024 | Cong |
| 1.2.1.4.4 | UI home page for Delivery Staff, Admin, Customers. | 1 | 20/11/2024 | 20/11/2024 | Vinh |
|  | UI for the profile | 1 | 20/11/2024 | 20/11/2024 | Vinh |
| **1.2.1.5** | **Design Test case** | **4** | 20/11/2024 | 20/11/2024 | Vinh |
| 1.2.1.5.1 | Design test case [Server/Backend] Register fDelivery Staff, Admin, Customers. | 1 | 23/11/2024 | 23/11/2024 | Quang |
| 1.2.1.5.2 | Design test case [Server/Backend] Login for Delivery Staff, Admin, Customers. | 1 | 23/11/2024 | 23/11/2024 | Quang |
| 1.2.1.5.3 | Design test case [Frontend] UI dashboard for Admin. | 1 | 23/11/2024 | 23/11/2024 | Dang |
| 1.2.1.5.4 | Design test case [Server/Backend] Show users page | 1 | 23/11/2024 | 23/11/2024 | Dang |
| **1.2.1.6** | **Code** | **7** | 23/11/2024 | 23/11/2024 | **All member** |
| 1.2.1.6.1 | [Server/Backend] [Server/backend] Register for Delivery Staff, Admin, Customers. | 2 | 24/11/2024 | 24/11/2024 | Dang |
| 1.2.1.6.2 | [Server/Backend] Forgot password | 1 | 24/11/2024 | 24/11/2024 | Dang |
| 1.2.1.6.3 | [Server/Backend] Login for Delivery Staff, Admin, Customers. | 2 | 26/11/2024 | 26/11/2024 | Vinh |
| 1.2.1.6.4 | [Server/Backend] profile for Delivery Staff, Admin, Customers. | 2 | 26/11/2024 | 26/11/2024 | Quang |
| 1.2.1.6.5 | [Frontend] UI dashboard for Delivery Staff, Admin, Customers.. | 2 | 26/11/2024 | 26/11/2024 | An |
| 1.2.1.6.6 | [Frontend] Show users page for admin. | 2 | 28/11/2024 | 28/11/2024 | An |
| 1.2.1.6.7 | [Frontend] Show the profile | 2 | 28/11/2024 | 28/11/2024 | An |
| **1.2.1.7** | **Testing** | **4** | 28/11/2024 | 28/11/2024 | **Vinh, Dang, Cong** |
| 1.2.1.7.1 | Test [Server/Backend] Register forDelivery Staff, Admin, Customers. | 1 | 29/11/2024 | 29/11/2024 | Quang |
| 1.2.1.7.2 | Test [Server/Backend] Login for Delivery Staff, Admin, Customers. | 1 | 29/11/2024 | 29/11/2024 | An |
| 1.2.1.7.3 | Test [Frontend] home page Delivery Staff, Admin, Customers. | 1 | 29/11/2024 | 29/11/2024 | Vinh |
| 1.2.1.7.4 | Test [Server/Backend] Show profile for Delivery Staff, Admin, Customers. | 1 | 30/11/2024 | 30/11/2024 | Cong |
| **1.2.1.8** | **Fix bug** | **5** | 30/11/2024 | 30/11/2024 | **All member** |
| **1.2.1.9** | **Re-testing** | **1** | 30/11/2024 | 30/11/2024 | **All member** |
| **1.2.1.10** | **Release Sprint 1** | **1** | 30/11/2024 | 30/11/2024 | **All member** |
| 1.2.1.10.1 | Sprint review meeting | 1 | 30/11/2024 | 30/11/2024 | All member |
| 1.2.1.10.2 | Retrospective | 1 | 30/11/2024 | 30/11/2024 | All member |
| **1.2.2** | **Sprint 2** | **21** | **01/12/2024** | **01/12/2024** | **All member** |
| **1.2.2.1** | **Sprint planning meeting** | **1** | 02/12/2024 | 02/12/2024 | **All member** |
| **1.2.2.2** | **Create Sprint Backlog for Sprint 2** | **1** | 02/12/2024 | 02/12/2024 | **All member** |
| **1.2.2.3** | **Create Test Plan document for Sprint 2** | **1** | 02/12/2024 | 02/12/2024 | **All member** |
| **1.2.2.4** | **Design UI** | **4** | 02/12/2024 | 02/12/2024 | **Cong** |
| 1.2.2.4.1 | UI for the teamword | 2 | 02/12/2024 | 02/12/2024 | Dang |
| 1.2.2.4.2 | UI for the schedule | 1 | 02/12/2024 | 02/12/2024 | An |
| 1.2.2.4.3 | UI for the quiz&test ( Customers) | 1 | 02/12/2024 | 02/12/2024 | Quang |
| 1.2.2.4.4 | UI for the conversation | 1 | 02/12/2024 | 02/12/2024 | Danh |
| 1.2.2.4.5 | UI for the receive notification | 1 | 02/12/2024 | 02/12/2024 | Danh |
| 1.2.2.4.6 | UI for edit profile | 1 | 02/12/2024 | 02/12/2024 | Danh |
| **1.2.2.5** | **Design Test case** | **2** | 02/12/2024 | 02/12/2024 | **All member** |
| 1.2.2.5.1 | Design test case [Frontend] UI for the teamword | 1 | 02/12/2024 | 02/12/v024 | Vinh |
| 1.2.2.5.2 | Design test case [Frontend] UI for the schedule | 1 | 03/12/2024 | 03/12/2024 | Cong |
| 1.2.2.5.3 | Design test case [Frontend] UI for show the quiz&test (Customers) | 1 | 03/12/2024 | 03/12/2024 | An |
| 1.2.2.5.4 | Design test case [Frontend] UI for edit profile | 1 | 03/12/2024 | 03/12/2024 | Quang |
| 1.2.2.5.5 | Design test case [Frontend] UI for the receive notification | 1 | 03/12/2024 | 03/12/2024 | An |
| 1.2.2.5.6 | Design test case [Server/Backend] for quiz&test | 1 | 03/12/2024 | 03/1v/2024 | Danh |
| 1.2.2.5.7 | Design test case [Server/Backend] for the teamwork | 1 | 03/12/2024 | 03/12/2024 | Danh |
| 1.2.2.5.8 | Design test case [Server/Backend] for the receive notification | 1 | 03/12/2024 | 03/12/2024 | Cong |
| 1.2.2.5.9 | Design test case [Server/Backend] Edit profile | 1 | 03/12/2024 | 03/12/2024 | Quang |
| **1.2.2.6** | **Code** | **6** | 04/12/2024 | 10/12/2024 | **All member** |
| 1.2.2.6.1 | [Frontend] UI for show the schedule (Delivery Staff, Admin, Customers.) | 3 | 04/12/2024 | 04/12/2024 | An |
| 1.2.2.6.2 | [Frontend] UI for teamword (Admin) | 3 | 04/12/2024 | 04/12/2024 | Cong |
| 1.2.2.6.3 | [Frontend] UI for conversation | 3 | 04/12/2024 | 04/12/2024 | Cong |
| 1.2.2.6.4 | [Frontend] UI for receive notification | 3 | 04/12/2024 | 04/12/2024 | Cong |
| 1.2.2.6.5 | [Frontend] UI for detail page to edit profile (Delivery Staff, Admin, Customers.) | 3 | 04/12/2024 | 04/12/2024 | Quang |
| 1.2.2.6.6 | [Server/Backend] teamword | 3 | 04/12/2024 | 04/12/2024 | Danh |
| 1.2.2.6.7 | [Server/Backend] Edit profile | 3 | 04/12/2024 | 04/12/2024 | Danh |
| 1.2.2.6.8 | [Server/Backend] receive notification | 4 | 04/12/2024 | 04/12/2024 | An |
| 1.2.2.6.9 | [Server/Backend] Show detail page to edit profile (Delivery Staff, Admin, Customers.) | 3 | 04/12/2024 | 04/12/2024 | Dang |
| **1.2.2.7** | **Testing** | **5** | 06/12/2024 | 06/12/2024 | **All member** |
| 1.2.2.7.1 | Test [Server/Backend] the teamword | 1 | 06/12/2024 | 06/12/2024 | Dang |
| 1.2.2.7.2 | Test [Server/Backend] for the schedule | 1 | 06/12/2024 | 06/12/2024 | Dang |
| 1.2.2.7.3 | Test [Server/Backend] for the quiz&test | 4 | 06/12/2024 | 06/12/2024 | Dang |
| 1.2.2.7.4 | Test [Server/Backend] receive notification | 2 | 06/12/2024 | 06/12/2024 | V.Trung |
| 1.2.2.7.5 | Test [Server/Backend] edit profile to the system | 4 | 06/12/2024 | 06/12/2024 | Dang |
| 1.2.2.7.6 | Test [Server/Backend] Update password (Delivery Staff, Admin, Customers.) | 3 | 06/12/2024 | 06/12/2024 | Cong |
| **1.2.2.8** | **Fix bug** | **3** | **07/12/2024** | **07/12/2024** | **All member** |
| **1.2.2.9** | **Re-testing** | **1** | 07/12/2024 | 07/12/2024 | **All member** |
| **1.2.2.10** | **Release Sprint 2** | **1** | 07/12/2024 | 07/12/2024 | **All member** |
| 1.2.2.10.1 | Sprint review meeting | 1 | 07/12/2024 | 07/12/2024 | All member |
| 1.2.2.10.2 | Retrospective | 1 | 07/12/2024 | 07/12/2024 | All member |
| **1.2.3** | **Sprint 3** | **28** | **07/12/2024** | **07/12/2024** | **All member** |
| **1.2.3.1** | **Sprint planning meeting** | **1** | 07/12/2024 | 07/12/2024 | **All member** |
| **1.2.3.2** | **Create Sprint Backlog for Sprint 3** | **1** | 07/12/2024 | 07/12/2024 | **All member** |
| **1.2.3.3** | **Create Test Plan document for Sprint 3** | **1** | 07/12/2024 | 07/12/2024 | **All member** |
| **1.2.3.4** | **Design UI** | **2** | 07/12/2024 | 07/12/2**v**24 | **All member** |
| 1.2.3.4.1 | UI for post announcements (Admin) | 1 | 08/12/2024 | 08/12/2024 | Quang |
| 1.2.3.4.2 | UI for the post information of the ministry | 1 | 08/12/2024 | 08/12/2024 | Quang |
| 1.2.3.4.3 | UI for update learning results | 1 | 08/12/2024 | 08/12/2024 | An |
| 1.2.3.4.4 | UI for the online attendace | 1 | 08/12/2024 | 08/12/2024 | An |
| 1.2.3.4.5 | UI for the summary of subject rankings | 1 | 09/12/2024 | 09/12/2024 | Danh |
| **1.2.3.5** | **Design Test case** | **4** | 09/12/2024 | 09/12/2024 | **All member** |
| 1.2.3.5.1 | Design test case [Frontend] UI for post announcements | 1 | 09/12/2024 | 09/12/2024 | Danh |
| 1.2.3.5.2 | Design test case [Frontend] UI for the post information of the ministry | 2 | 09/12/2024 | 09/12/2024 | Kiet |
| 1.2.3.5.3 | Design test case [Frontend] UI for update learning results | 1 | 09/12/2024 | 09/12/2024 | Cong |
| 1.2.3.5.4 | Design test case  [Server/Backend] online attendance | 1 | 09/12/2024 | 09/12/2024 | Cong |
| 1.2.3.5.5 | Design test case [Server/Backend] summary of subject rankings. | 1 | 09/12/2024 | 09/12/2024 | Quang |
| **1.2.3.6** | **Code** | **7** | 09/12/2024 | 09/12/2024 | **All member** |
| 1.2.3.6.1 | [Frontend] online attendace (Admin) | 3 | 09/12/2024 | 09/12/2024 | An |
| 1.2.3.6.2 | [Frontend] summary of subject rankings | 3 | 09/12/2024 | 09/1v/2024 | Danh |
| 1.2.3.6.3 | [Frontend] UI for update learning results | 4 | 09/12/2024 | 09/12/2024 | Danh |
| 1.2.3.6.4 | [Frontend] UI for online attendace(Delivery Staff) | 3 | 09/12/2024 | 09/12/2024 | Quang |
| 1.2.3.6.5 | [Frontend] UI for summary of subject rankings | 3 | 09/12/2024 | 09/12/2024 | An |
| 1.2.3.6.6 | [Server/Backend] post announcements | 3 | 09/12/2024 | 09/12/2024 | Vinh |
| 1.2.3.6.7 | [Server/Backend] post information of the ministry | 4 | 09/12/2024 | 09/12/2024 | Vinh |
| 1.2.3.6.8 | [Server/Backend] update clothers | 1 | 09/12/2024 | 09/12/2024 | Vinh |
| 1.2.3.6.9 | [Server/Backend] online attendace (Delivery Staff, Admin, Customers.) | 1 | 09/12/2024 | 09/12/2024 | Vinh |
| 1.2.3.6.10 | [Server/Backend] summary of clothers rankings | 1 | 09/12/2024 | 09/12/2024 | Vinh |
| **1.2.3.7** | **Testing** | **3** | 09/12/2024 | 09/12/2024 | **All member** |
| 1.2.3.7.1 | Test [Server/Backend] post announcements | 1 | 09/12/2024 | 09/12/2024 | An |
| 1.2.3.7.2 | Test [Server/Backend] update buy clother results | 1 | 09/12/2024 | 09/12/2024 | Dang |
| 1.2.3.7.3 | Test [Server/Backend] online attendace | 1 | 09/12/2024 | 09/12/2024 | Dang |
| 1.2.3.7.4 | Test [Server/Backend] summary of clothers rankings | 1 | 09/12/2024 | 09/12/2024 | An |
| 1.2.3.7.5 | Test [Frontend] post announcements | 1 | 09/12/2024 | 09/12/2024 | Cong |
| 1.2.3.7.6 | Test [Frontend] update clothers results | 1 | 09/12/2024 | 09/12/2024 | Cong |
| **1.2.3.8** | **Fix bug** | **5** | 09/12/2024 | 09/12/2024 | **All member** |
| **1.2.3.9** | **Re-testing** | **4** | 09/12/2024 | 09/12/2024 | **All member** |
| **1.2.3.10** | **Release Sprint 3** | **1** | 09/12/2024 | 09/12/2024 | **All member** |
| 1.2.3.10.1 | Sprint review meeting | 1 | 09/12/2024 | 09/12/2024 | All member |
| 1.2.3.10.2 | Retrospective | 1 | 09/12/2024 | 09/12/2024 | All member |
| **1.2.4** | **Sprint 4** | **28** | **09/12/2024** | **09/12/2024** | **All member** |
| **1.2.4.1** | **Sprint planning meeting** | **1** | 09/12/2024 | 09/12/2024 | **All member** |
| **1.2.4.2** | **Create Sprint Backlog for Sprint 4** | **1** | 09/12/2024 | 09/12/2024 | **All member** |
| **1.2.4.3** | **Create Test Plan document for Sprint 4** | **1** | 09/12/2024 | 09/12/2024 | **All member** |
| **1.2.4.4** | **Design UI** | **1** | 09/12/2024 | 09/12/2024 | **Hieu, Hien** |
| 1.2.4.4.1 | UI for take a day off | 1 | 09/12/2024 | 09/12/2024 | Quang |
| 1.2.4.4.2 | UI for the update assessment | 1 | 09/12/2024 | 09/12/2024 | An |
| 1.2.4.4.3 | UI for the send notifications to student | 1 | 09/12/2024 | 09/12/2024 | Cong |
| **1.2.4.5** | **Design Test case** | **2** | 09/12/2024 | 09/12/2024 | **All member** |
| 1.2.4.5.1 | Design Test case[Frontend] Detail page to edit profile for Admin. | 1 | 09/12/2024 | 09/12/2024 | Danh |
| 1.2.4.5.2 | Design Test case [Server/Backend] Update password for Delivery Staff, Admin, Customers. | 1 | 09/12/2024 | 09/12/2024 | Danh |
| 1.2.4.5.3 | Design Test case [Fronted] take a day off | 1 | 09/12/2024 | 09/12/2024 | An |
| 1.2.4.5.4 | Design Test case [Frontend] update assessment | 1 | 09/12/2024 | 09/12/2024 | Cong |
| 1.2.4.5.5 | Design Test case [Server/Backend] send notifications to Delivery Staff. | 1 | 09/12/2024 | 09/12/2024 | Vinh |
| **1.2.4.6** | **Code** | **7** | 09/12/2024 | 09/12/2024 | **All member** |
| 1.2.4.6.1 | [Frontend] Detail page to take a day off | 1 | 09/12/2024 | 09/12/2024 | Vinh |
| 1.2.4.6.2 | [Server/Backend] Update update assessment Customer | 1 | 09/12/2024 | 09/12/2024 | Quang |
| 1.2.4.6.3 | [Server/Backend] send notifications to Adimin | 1 | 09/12/2024 | 09/12/2024 | Dang |
| 1.2.4.6.4 | [Frontend] UI for the take a day off. | 1 | 10/12/2024 | 10/12/2024 | Dang |
| 1.2.4.6.5 | [Frontend] for the update assessment | 1 | 10/12/2024 | 10/12/2024 | Dang |
| 1.2.4.6.6 | [Server/Backend] send notifications to clothes recipient. | 1 | 10/12/2024 | 10/12/2024 | Vinh |
| **1.2.4.7** | **Testing** | **4** | 10/12/2024 | 10/12/2024 | **All member** |
| 1.2.4.7.1 | Test [Server/Backend] Update assessment Customer | 1 | 10/12/2024 | 10/12/2024 | An |
| 1.2.4.7.2 | Test [Server/Backend] Update quiz test | 1 | 10/12/2024 | 10/12/2024 | Quang |
| 1.2.4.7.3 | Test [Server/Backend] update assessment | 1 | 10/12/2024 | 10/12/2024 | Danh |
| 1.2.4.7.4 | Test [Server/Backend] send notifications to Customer receiver. | 1 | 10/12/2024 | 10/12/2024 | AN |
| 1.2.4.7.5 | Test [Frontend] UI for the take a day off. | 1 | 10/12/2024 | 10/12/2024 | An |
| 1.2.4.7.6 | Test [Frontend] send notifications to Customer receiver. | 1 | 10/12/2024 | 10/12/2024 | Vinh |
| **1.2.4.8** | **Fix bug** | **4** | 10/12/2024 | 10/12/2024 | **All member** |
| **1.2.4.9** | **Re-testing** | **3** | 10/12/2024 | 10/12/2024 | **All member** |
| **1.2.4.10** | **Release Sprint 4** | **1** | 10/12/2024 | 10/12/2024 | **All member** |
| 1.2.4.10.1 | Sprint review meeting | 1 | 10/12/2024 | 10/12/2024 | **All member** |
| 1.2.4.10.2 | Retrospective | 1 | 10/12/2024 | 10/12/2024 | **All member** |
| **1.3** | **Project ‘s meeting** | **3** | 10/12/2024 | 10/12/2024 | **All member** |
| **1.4** | **Final Release** | **1** | 10/12/2024 | 10/12/2024 | **All member** |

* + 1. **Project Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Activity** | **Start date** | **Responsible** | **Note** |
| **Defect Prevention** | | | | |
| 1 | Software Requirements Analysis | Oct 25, 24 | All team member | Collect and analyze actual requirements. Select requirements that can be developed by the technique. |
| 2 | Reviews: Self-Review and Peer Review | Oct 26, 24 | All team member | Face-to-face meetings, project evaluation through other large project platforms that already have similar functions. |
| 3 | Defect Logging and Documentation | Oct 29, 24 | All team member | Mining documents, dividing tasks and adding information to logs, saving sprints activities. |
| 4 | Root Cause Analysis and Preventive Measures Determination | Nov 07, 24 | Team | Make hypothetical problems, collect real problems and needs from customers, assessors, propose specific solutions and select feasibility. |
| 5 | Embedding Procedures into Software Development Process | Nov 09, 24 | Team | Work on Agile- Scrum process, split 4 sprints, embed the process in the document and start working on the task. |
| **Quality Control** | | | | |
| 1 | Input Quality Control | Nov 09, 24 | Team | NA |
| 2 | Process Quality Control | Nov 10, 24 | Team | NA |
| 3 | Output Quality Control | Nov 13, 24 | Team | NA |
| **Project Tracking** | | | | |
| 1 | Proposal Preparation | Dec 5, 24 | Team | Hold face-to-face meetings, analyze scope, requirements, feasibility, cost estimates.. of the project. |
| 2 | Present Proposal and Approval Project | Dec 5, 24 | Team | CTE-Learning approved by Dr. Man. |
| 3 | `Report | Dec 5, 24 | Team | Organize live mid-stage project reviews, progress tracking, and product demo reviews. |
| 4 | Final Submission | Dec 07, 24 | Team | Check all documents and packaging, wait for approval and print hard copy. |
| **Configuration Management** | | | | |
|  |  | Dec 07, 24 | Trung | NA |
| **QA** | | | | |
| 1 | Final Inspection: Deliverable 1 | Dec 07, 24 | Team | NA |
| 2 | Final Inspection: Deliverable 2 | Dec 07, 24 | Team | NA |
| 3 | Baseline audit: Startup | Dec 07, 24 | Team | NA |
| 4 | Baseline audit: Wrap-up | Dec 07, 24 | Team | NA |

## Resource

|  |  |  |  |
| --- | --- | --- | --- |
| **Team members** | Name | Email | Tel |
| Member, Product Owner | Le Hai Dang | hd1732005@gmail.com | 0384656371 |
| Member | Huynh Tan An | huynhtanan2@gmail.com | 0905986054 |
| Member | Thai Thanh Cong | doem579@gmail.com | 0565001797 |
| Member | Tran Anh Quang | xuhexxit1@gmail.com | 0987490015 |
| Member | Nguyen Phan Vinh | woasoaicaphanvinh@gmail.com | 0847849840 |

## Infrastructure

|  |  |  |  |
| --- | --- | --- | --- |
| **Work/Product** | **Purpose** | **Expected Availability by** | **Note** |
| **Development Environment** | | | |
| Windows 10 | Operating System | Initiation stage |  |
| Firebase | Database | Construction stage |  |
| JavaScript | Development language for Web interface | Construction stage |  |
| GitHub | Host server | Construction stage |  |
| **Hardware & Software** | | | |
| 1GB space on server |  | Construction stage |  |
| lucid chart | Design context diagram | Construction stage |  |
| Enterprise Architect | Design Architecture | Construction stage |  |
| **Other Tools** | | | |
| Excel | Effort logging | Construction stage |  |
| Android Studio | IDE Test | Definition stage |  |

## Training Plan

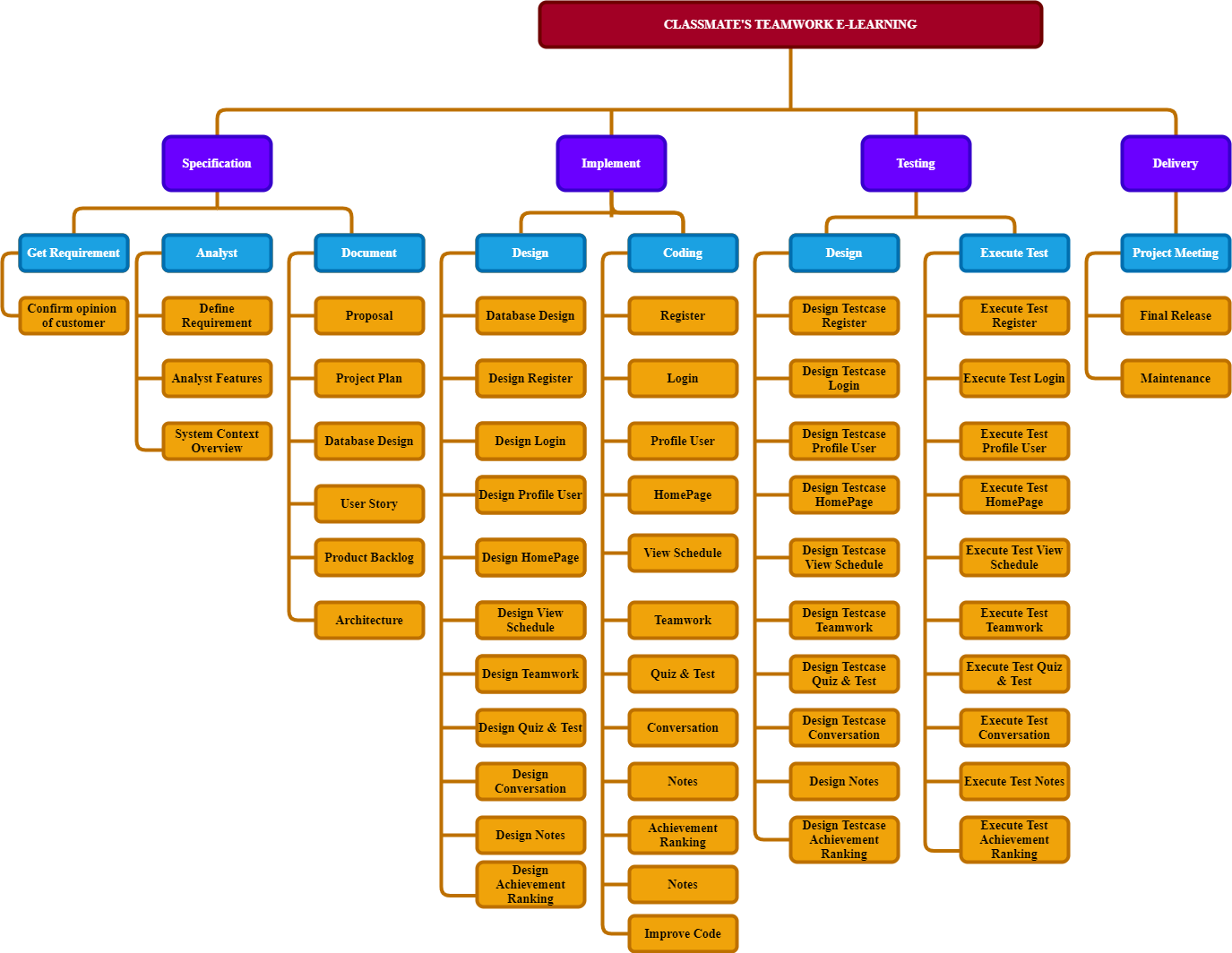
|  |  |  |  |
| --- | --- | --- | --- |
| **Training Area** | **Participants** | **When, Duration** | **Waiver Criteria** |
| **Technical** | | | |
| JavaScript Language | All team | 7 days | Mandatory |
| JavaScript Applets | All team | 2 days | If already trained |
| Firebase | All team | 4 days | Mandatory |
| GitHub | All team | 4.5 hours | Mandatory |
| **Business domain** | | | |
| Banking | All team | 7 days |  |
| Process | | | |
| Quality system | All team | 3 hours | If already trained |
| Configuration management | All team | 2 hours | If already trained for  CC. For others, on-the- job training |
| Enterprise Architect | All team | 4 hours | If already trained |
| Lucid chart | All team | 4.5 hours | If already trained |
| RUP methodology | All team | 2 hours | Mandatory |

## Finance

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Item** | **Total Budget** | **%**  **Budget** | **Budget in Period** | | | | | | | | | | | |
| **W1**  **-**  **F**  **e**  **b** | **W2**  **-**  **M**  **a**  **r** | **W3**  **-**  **Ma**  **r** | **W4**  **-**  **Ma**  **r** | **W1**  **-**  **Ma**  **r** | **W2**  **-**  **Ap**  **t** | **W3**  **-**  **A**  **p**  **t** | **W4**  **-**  **A**  **p**  **t** | **W1**  **-**  **Ap**  **t** | **W2**  **-**  **M**  **a**  **y** | **W3**  **-**  **Ma**  **y** | **W3**  **-**  **May** |
| Purchases (COTS) | 4200 | ~80% | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 | 350 |  |
| Management (cost) | 840 | ~20% | 210 |  |  |  | 210 |  |  |  | 210 |  |  | 210 |
| **Total** | **5040** | **100%** | **560** | **350** | **350** | **350** | **560** | **350** | **350** | **350** | **560** | **350** | **350** | **560** |

* With the rapid growth of e-commerce and technology, online shopping has become an essential part of people's daily lives. However, customers often face challenges such as lack of personalization, difficulty in finding desired products, and concerns about data security. Therefore, this project aims to create a web application for an online clothing store that offers a seamless shopping experience, helps customers find their favorite styles quickly, and ensures data privacy.
* Our web application is designed to provide customers with an intuitive, user-friendly interface and high-quality service. It ensures all customer data remains secure and confidential.
* The project team will develop this system within 120 days with a budget of $6,000 for 4 members. We guarantee strict adherence to the schedule, budget, and timely delivery of the final product.

## Organization Structure

******

## Project Team

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibility** | **Name** |
| **Scrum Master** | - Project planning  - Make a schedule, divide specific stages  - Planning change and project development  - Estimating budgets and expenses  - Time allocation plan for each specific task.  - Identify the technologies to be used  - Planning for training and meeting | Le Hai Dang |
| **Product Owner** | - Defining the vision  - Anticipating client needs  - Overseeing development stages  - Prioritizing needs  - Managing the product backlog  - Acting as a primary liaison between stakeholder and team member  - Evaluating product progress at each iteration | Team |
| **Stakeholder (Mentor)** | * Guide on the process. * Monitoring all activities of the Team. * Help with anything. * Reviews project documents   - Reviews product | Thuan Nguyen Trung |
| **Team member** | - Responsible for quality  - Responsible for delivering the potentially shippable product of the Application for each task in GitHub  - Report progress based on the remaining time  - Self-organized: The work itself comes randomly and is picked by team members  - The goal of team members is to get all the incoming work done as quickly as possible. | All  members |
| **Back end Developer** | - Design and Plan the Functions of the Online Clothing Store Website **Plan and Deploy Integration of Databases**: Develop functionalities for product browsing, adding items to the shopping cart, processing checkout, payment integration, and managing product inventory (adding, editing, and deleting product information). Ensure customer data, including order history and preferences, is securely stored and managed.  **Plan and Deploy User Information and Product Details View**: Develop features to allow users to view their profile information, track order history, and update personal details. Integrate a product catalog with detailed descriptions, images, and pricing. Implement a search feature to help users easily find specific clothing items.  **Develop Chatbot Functionality**: Implement a chatbot feature for assisting customers with product inquiries, order status, and general customer service. The chatbot should offer personalized recommendations based on user preferences.  **View Cross-User Information and Assign Access Rights**: Enable different levels of access for store administrators, staff, and customers. Admins should have the ability to view and manage user and product information, while customers can only access their order and personal details. | Team |
| **Front end Developer** | - Design interface website CLO-APP  - Design interface Login, Register, UI.  - Design interface for detail homepage, animation. | Team |
| **Business Analyst** | - Get requirements.  - Build problem model and solution model.  - Design Use-case, Work-flow Diagram, Component Diagram.  - High-fi mock-up.  - Test app, web, and write test cases.  - Documentation relates information to the project. | Team |
| **Backend Developer** | * Backup data with firebase. * Plan and deploy functions of website CTE-Learning | Trung, Dang Quang |

COMMUNICATION & REPORTING

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Communication Type** | **Method / Tool** | **When** | **Information** | **Participants / Responsible** |
| **Project Task Tracking** | | | | |
| Task scheduling | MS Project | At the beginning of every stage and weekly  Refinement and  rescheduling as necessary | Evaluate and check the progress of each stage,  Flexible request collection and reasonable time adjustment | Team |
| Task assignment | In Excel file and via project weekly meeting | Weekly | Detailed small tasks statistics in sprints, calculate working hours and track progress, add backlog, implement burn down chart | Team |
| **Project Meeting** | | | | |
| Kick-off Meeting | Face to face | Initiation stage | Project introduction; Project plan review; Risk identification; Obtainment of commitment of relevant stakeholders | Mentor  Team member |
| Project Progress Review Meetings | Face to face | Every 2 weeks | Communicate project status  Communicate and resolve any open issue, risks, and changes  Discuss any suggested improvement | Mentor  Team Members  Product owner |
| Milestone Meetings | Face to face | Before milestones | Project objective review, evaluate project performance (quality, schedule, effort), Causal analysis, update project plan for next stage | Mentor  Team Members  Product owner |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Communication Type** | **Method / Tool** | **When** | **Information** | **Participant/ Responsible** |
| Project Post-mortem Meeting | Face to face | Termination stage | Wrap-up  Evaluate project performance; Team performance; share experiences | Team Members |
| Transfer/Sharing of project documentation/ information |  | When available | All project documentation and information | Team Members |
| **Customer Communication and Reporting:** | | | | |
| Project Report | Agreed standard format between company and customer | 10PM Saturday, Weekly | Project status report, Issue requiring clarifications, escalation, if any | Scrum master  Product Owner |
| Requirement gathering/clarification | Email/TV meeting/Face to face  meeting | During requirement analysis phase | As in Q&A list | Van Trung |
| **Communication with Senior Management** | | | | |
| Review Project Plan & Project schedule | By email or attend project meeting | Significant changes to WO, PP and Project schedule (scope, objectives Organization, HR, major milestone, deliverables ) | Provide information to members about the time and plan of upcoming phases, evaluate the performance of the completed phases, implement the next phase in accordance with customer requirements | Q Trung |
| Project Progress Review | By email  and/or via Operation meeting at Group/ Division level | Weekly | Project status report, Issue requiring clarifications, escalation, if any | Mentor  Team member  Scrum Master |
| Project Milestone Review | By email and via project milestone review meeting | End of every stage | Project objective review, evaluate project performance (quality, schedule, effort), Causal analysis, update project plan for next stage | Mentor  Team member  Scrum Master |
| **Other Communication and Reporting:** | | | | |
| Raise issue or request service/support of BA groups (IT, Admin, QA, HR, Training,  Recruitment, ...) | Call log; email; phone | Upon request | Request content, expected completion date | Project Manager |

# CONFIGURATION MANAGEMENT

|  |  |  |
| --- | --- | --- |
| **No.** | **Tools** | **content** |
| 1 | Excel | Use this tool to track membership. At the end of each day, the group members will post on the Time Table and Scrum Master will check |
| 2 | Weekly meeting | Organize a meeting every week to assign tasks to each member.  If there are some emergencies but we cannot sit together, we can use Facebook, Discord to discuss online. |
| 3 | Document | All meetings must be recorded. |

# SECURITY ASPECTS

* Only the administrator has extensive access to the system and reconfigures the system.
* Project information will remain private.
* All project members must agree to respect the confidentiality of project information.

# REFERENCES

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Reference item** | **Source** | **Note** |
| 1 | Proposal | 1. [Proposal](http://../1.%20Proposal/Proposal_Ver1.2.docx) |  |
| 2 | Product backlog | 4. [Product](http://../3.%20Product%20Backlog/ProductBacklog%20v1.1.xlsx) Backlog |  |
| 3 | Scrum Process | [Scrum.org](https://www.scrum.org/) |  |
| 4 | GitHub | <https://github.com/> |  |
| 5 | Reactjs | <https://reactjs.org/> |  |
| 5 | Nodejs | <https://nodejs.org/en/docs/> |  |

# DEFINITIONS AND ACRONYMS

|  |  |
| --- | --- |
| **Acronym** | **Definition** |
| **PM** | Project Manager |
| **PTL** | Project Technical Leader |
| **QA** | Quality Assurance Officer |
| **CC** | Infrastructure Configuration Controller |
| **DV** | Developer |
| **URD** | User Requirement Document |
| **SRS** | Software Requirement Specification |
| **ADD** | Architecture Design Document |
| **DDD** | Detail Design Document |
| **TP** | Test Plan |
| **TC** | Test Case |
| **SC** | Source Code |
| **CM** | Configuration Management |
| **CSCI** | Computer Software Configuration Items |
| **CI** | Configuration Item |
| **CCB** | Change Control Board |