

**INTERNATIONAL SCHOOL**

**COURSE PROJECT 1**

**CMU-CS 246**

**DEFINDED PROCESS DOCUMENT**

Version: 1.1

**SOFTWARE TO SUPPORT**

**CALCULATIONS – STSC**

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|  |  |
| --- | --- |
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| **Project Title** | Software to support calculations | | | | |
| **Start Date** | 25 – Jan–2024 | **End Date** | | 20 – Feb –2024 | |
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# 1. PROJECT DESCRIPTION

|  |  |  |  |
| --- | --- | --- | --- |
| **Project code** | FMS | **Contract type** | Internal Project |
| **Customer** | N/A | **End-user** | Management,  employee of company |
| **Project type** | Internal | **Project Manager/**  **Waterfall Master** | Hoa,Nguyen Bui Ngoc |
| **Project category** | food and personnel management | **Business Domain** | AI |
| **Application type** | Web Applcation |  |  |

# 2. PROJECT DEVELOPMENT APPROACH

## 2.1. TECHNICAL PROCESS

We use agile methodology in our project, besides using software tools to manage work, assign tasks to team members such as Trello, Slack, Google Drive, Discord, and Source code management tools like git. And for project requirements, we use the Nodejs for web development with the MySQL database.

## 2.1.1. REASON FOR SELECTING

To keep up with today's increasingly changing technology trends, we want a truly flexible and easy project development model to adapt to that change. Our project will develop more new features in the future. We will continuously update and apply new technologies that increase the attractiveness and intelligence of the system.

On an Agile project, the team does not attempt to develop all features at once. Instead, the team assigns a smaller subset of features to each sprint. That way, the developers have more time to perfect those items before release.

Having team members complete small, measurable amounts of work helps keep them focused and motivated. While our team is a small team with little experience in project development. Therefore, we cannot avoid problems that arise in the software development stages, and requirements can be changed to be more suitable. The traditional model that requires managerial skills and high accuracy, will not suit our team. Applying the Agile Scrum model will help us to solve these problems, bring a lot of experience and best performance for project development.

## 2..1.2 AGILE METHODOLOG

* The Agile methodology was firstly developed for the software industry.
* The task was to optimize and improve the development process and to try to identify and quickly correct problems and defects.
* This methodology allows providing better output, more quickly, through short and interactive sessions/sprints.
* In the era of digital transformation, where many organizations are migrating to a digital workplace, the Agile methodology suits perfectly companies that are looking to transform the way in which projects are managed and the way they operate as a whole.

2.1.3. WATERFALL MODEL



**Figure1:** Waterfall model

- The project can respond easily to change and adaptation.

- Allow early design changes.

- Imposing a tightly structured organization.

- Suitable for landmark-oriented projects.

- Waterfall model helps customers easily control strict reports.

- The start time and end time of each stage are fixed, easy to follow.

**3. REFERENCES**

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