

International School

**Capstone Project 2**

CMU-SE 451

**Product Backlog**

Version 1.1

Date: 23 Feb 2022

**SENIOR PROJECT MANAGEMENT SYSTEM**

**FOR INTERNATIONAL SCHOOL**

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**PROJECT INFORMATION**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Project acronym** | Senior Project Management System for International School | | | | |
| **Project Title** | SPMS | | | | |
| **Start Date** | 18 Feb 2022 | | **End Date** | 15 May 2022 | |
| **Lead Institution** | International School, Duy Tan University | | | | |
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**REVISION HISTORY**

| **Version** | **Date** | **Comments** | **Author** | **Approval** |
| --- | --- | --- | --- | --- |
| v1.0 | 23/02/2022 | Initial Release | All members | x |
| v1.1 | 23/02/2022 | Update document | Tien | x |
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Table of Contents

**1. Introduction 7**

1.1. Purpose 7

1.2. Scope 7

1.3. References 7

**2. Product backlog specification 8**

**3. Challenges 11**

**4. Stakeholders and user description 12**

Table of Tables

**Table 2.1:** *Product backlog specification (Sprint 1)* 8

**Table 2.2:** *Product backlog specification (Sprint 2).* 9

**Table 2.3:** *Product backlog specification (Sprint 3).* 10

**Table 2.4:** *Product backlog specification (Sprint 4).* 11

**Table 3:** *Challenges..* 11

**Table 4:** *Stakeholders and user description.* 12

**SIGNATURE**

**Document Approvals:** *The following signatures are required for approval of this document.*

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1. **Introduction**

The agile product backlog in Scrum is a prioritized features list, containing short descriptions of all functionality desired in the product. When applying Scrum, it’s not necessary to start a project with a lengthy, upfront effort to document all requirements. Typically, a Scrum team and its product owner begin by writing down everything they can think of for agile backlog prioritization. This agile product backlog is almost always more than enough for a first sprint. The Scrum product backlog is then allowed to grow and change as more is learned about the product.

* 1. **Purpose**
* Provide a prioritized features list, containing a short description of all functionality desired in the product.
* Lists everything that the product owner and Scrum team feels should be included in the software they are developing.
  1. **Scope**
* Lists the user’s role.
* Write all the user’s requirements.
* Lists some main functions of the system.
* Short description of all the functionality desired in the product.
* Given the priority of each feature and function of the product.

## **1.3 References**

|  |  |  |
| --- | --- | --- |
| **No** | **Source** | **Note** |
| 1 | <https://www.visual-paradigm.com/scrum/what-is-product-backlog-in-scrum/> | What is Product Backlog in Scrum? Who Responsible for It? |
| 2 | <https://www.scrum-institute.org/The_Scrum_Product_Backlog.php> | The Scrum Product Backlog - International Scrum Institute |

1. **Product backlog specification**

***Priority and Estimates***

Priorities are set from high (H), medium (M) and low (L):

* Priorities of some user stories can be the same with others.
* If a user story has dependencies, it must have lower priority than its dependencies.

**Table 2.1:***Product backlog specification (Sprint 1).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a/an** | **I want** | **so that I can** | **Priority**  **(H, M, L)** |
| PB01 | User | Access into the system | I can use features of system with my role | M |
| PB02 | User | Log out of the system | I can stop using the system. I can login after I want to use the system next time | L |
| PB03 | Admin | Manage account for user | User can receive an account and use a system | L |
| PB04 | Moderator | I can update, approve an information of student | Student can receive account to use system | M |
| PB05 | Moderator | I can create, update, delete notification for user use system | Student and mentor can receive a notification easily and quickly | M |
| PB06 | Student | Register to execute capstone | I can have account after moderator approved it | M |
| PB07 | Moderator | I can create, update, delete an information of mentor | I can export file mentor list | M |

**Table 2.2:***Product backlog specification (Sprint 2).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a** | **I want to** | **so that** | **Priority**  **(H, M, L)** |
| PB08 | Moderator | I can create, update, delete an information of group and assign mentors for each group | Student can view information of group and quickly connect with member in group | H |
| PB09 | Moderator | View list topic and approve or reject topic of each team | student can know result topic | M |
| PB10 | Student | Submit topic or choose topic template of mentor to execute project | I can wait to moderator approve or reject topic. | H |
| PB11 | Mentor | Submit or upload topic template for student | Student can choose topic to execute project | M |
| PB12 | Admin | Upload file template document | Student can view or download to use it for project | M |

**Table 2.3:** *Product backlog specification (Sprint 3).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a** | **I want to** | **so that I can** | **Priority**  **(H, M, L)** |
| PB13 | Student | Create stage and task for each stage | I can easily manage project and assign task for member | H |
| PB14 | Mentor | Mentor can see and evaluate work quality of each member | I can evaluate a performance working of each member in group to give their score | H |
| PB15 | Student | The student will aggregate the percentage of each member's contribution and sum it up | Mentor can see and evaluate work quality of each member | H |
| PB16 | Moderator | I can create, update, delete an information of defense and assign evaluator for each group | Student can view information of defense | H |

**Table 2.4:***Product backlog specification (Sprint 4).*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a** | **I want to** | **so that I can** | **Priority**  **(H, M, L)** |
| PB17 | Mentor | Submit score for group in defense | Student can see score and I can export file summary score | M |
| PB18 | Student | Submit score for group in defense | Student can see score and evaluator can export file summary score | M |

1. **Challenges**

**Table 3:***Challenges.*

|  |  |  |
| --- | --- | --- |
| **No.** | **Challenge** | **Condition** |
| 1 | Time | Project completion time limit in 90 days so time to complete project be restricted |
| 2 | Budget | Budget limit $3680 |
| 3 | Human Resources | Team limit with 4 members and 1 mentor develops the system |
| 4 | Technical | Apply many new current technique |
| 5 | Requirements | Follow owner requirements and market |

1. **Stakeholders and user description**

**Table 4:***Stakeholders and user description.*

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Name** | **Description** | **Role** |
| 1 | Student | Main user who will see follow capstone and submit assignment | Interact with the application include: view information, group, project timeline, topic, news & announcements and manage project |
| 2 | Mentor | Manager of group student | Manage group and up topic of the system |
| 3 | Moderator | Manager of group mentor, student, evaluator | Interact with the application include : manage Student, group, mentor, defenses, project, news & announcements, schedule |
| 4 | Evaluator | Manager of evaluate | Manage evaluate |
| 5 | User | Include all student, mentor, moderator, evaluator | Use the functions available on the system |
| 6 | Admin | System administrator | Manage all user accounts, backup data and maintain the system |