



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
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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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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.

1.1. 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.

1.2. 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

2. 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

3. 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

4. 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