

**International School**

PROJECT

**CMU-SE-100**

PRODUCT BACKLOG DOCUMENT

Version 1.2

Date: … – … – 202…

**CTE-LEARNING**

**Submitted by**

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* SV 2…
* …

**PROJECT INFORMATION**

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# 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 and its clients.

## 1.1 Purpose

* Provide a prioritized features list, containing 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.
* Provide a prioritized features constraint list.

## 1.2 Scope

* Lists the management system’s module role.
* Lists some main function of system manager.
* Short description of all the functionality desired in the product.
* Given the priority of each feature and function of the product.

# Product Backlog

## Product Backlog Specification

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Theme** | **As a/an** | **I want to** | **So that** |
| PB01 | Register | School Leadership | Register account | I can access the system |
| PB02 | Login | School Leadership | Access to the system by my account | I can use the system with my role |
| PB03 | Logout | School Leadership | Add user | I can stop using system. I can log in later when I want to use system on next time. |
| PB04 | Change password | School Leadership | Change my password | I can keep it secure or make it easier to remember |
| PB05 | Forgot Password | School Leadership | Forgot Password | I can to get back my password account |
| PB06 | Reset password | School Leadership | Reset password | I can Reset password |
| PB07 | Edit profile | School Leadership | Edit profile | I can keep up with the latest information |
| PB08 | View profile | School Leadership | View profile | I can view my profile for customers to see |
| PB08 | Post announcements, school activities | School Leadership | Post announcements, school activities | I can Post announcements, school activities |
| PB08 | Post information of the Ministry of Education | School Leadership | Post information of the Ministry of Education | I can Post information of the Ministry of Education |

*Table 1: Product Backlog Specification (School Leadership)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Theme** | **As a/an** | **I want to** | **So that** |
| PB01 | Register | Subject teachers | Register account | I can access the system |
| PB02 | Login | Subject teachers | Access to the system by my account | I can use the system with my role |
| PB03 | Logout | Subject teachers | Add user | I can stop using system. I can log in later when I want to use system on next time. |
| PB04 | Change password | Subject teachers | Change my password | I can keep it secure or make it easier to remember |
| PB05 | Forgot Password | Subject teachers | Forgot Password | I can to get back my password account |
| PB06 | Reset password | Subject teachers | Reset password | I can Reset password |
| PB07 | Edit profile | Subject teachers | Edit profile | I can keep up with the latest information |
| PB08 | View profile | Subject teachers | View profile | I can view my profile for customers to see |
| PB09 | Update Quiz& Test | Subject teachers | Update Quiz& Test | I can Update Quiz& Test |
| PB10 | Summary of subject rankings | Subject teachers | Summary of subject rankings | I can Summary of subject rankings |
| PB11 | Online attendance | Subject teachers | Online attendance | I can join an Online attendance |

*Table 2: Product Backlog Specification (Subject teachers)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Theme** | **As a/an** | **I want to** | **So that** |
| PB12 | Register | Homeroom teachers | Register account | I can access the system |
| PB13 | Login | Homeroom teachers | Access to the system by my account | I can use the system with my role |
| PB14 | Logout | Homeroom teachers | Add user | I can stop using system. I can log in later when I want to use system on next time. |
| PB15 | Change password | Homeroom teachers | Change my password | I can keep it secure or make it easier to remember |
| PB16 | Forgot Password | Homeroom teachers | Forgot Password | I can to get back my password account |
| PB17 | Reset password | Homeroom teachers | Reset password | I can Reset password |
| PB18 | View schedule | Homeroom teachers | View posts | I can review their post |
| PB19 | Update daily activities | Homeroom teachers | Update daily activities | I can update new daily activities of student |
| PB20 | Update qualification | Homeroom teachers | Update qualification | I can update qualification of student |
| PB21 | View Profile | Homeroom teachers | View Profile | I can view profile personal |
| PB22 | Edit Profile | Homeroom teachers | Edit Profile | I can edit profile of Homeroom teachers |
| PB23 | Send notifications to students | Homeroom teachers | Send notifications to students | I can send notifications to students |
| PB24 | Update daily activities | Homeroom teachers | Update daily activities | I can update daily activities |
| PB25 | Conversation | Homeroom teachers | Conversation | I can chat with everyone in the system |
| PB26 | Receive notifications | Homeroom teachers | Receive notifications | I can receive notifications from the school |
| PB27 | Update assessment | Homeroom | Update assessment | I can update student assignments |
| PB28 | Online Attendance | Homeroom teachers | Online Attendance | I can join an Online attendance |

*Table 3: Product Backlog Specification (Homeroom teachers)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Theme** | **As a/an** | **I want to** | **So that** |
| PB29 | Register | Parents | Register account | I can access the system |
| PB30 | Login | Parents | Access to the system by my account | I can use the system with my role |
| PB31 | Logout | Parents | Add user | I can stop using system. I can log in later when I want to use system on next time. |
| PB32 | Change password | Parents | Change my password | I can keep it secure or make it easier to remember |
| PB33 | Forgot Password | Parents | Forgot Password | I can to get back my password account |
| PB34 | Reset password | Parents | Reset password | I can reset password |
| PB35 | View Profile | Parents | View Profile | I can view profile personal |
| PB36 | Edit Profile | Parents | Edit Profile | I can edit profile of Homeroom parents |
| PB37 | Update learning results | Parents | Update learning results | I can review update learning results |
| PB38 | Receive Notifications | Parents | Receive Notifications | I can Receive Notifications from school |
| PB39 | Take a day off | Parents | Take a day off | I want to ask the teacher's permission for my child |
| PB40 | Conversation | Parents | Conversation | I can Conversation with teacher |

*Table 4: Product Backlog Specification (parents)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Theme** | **As a/an** | **I want to** | **So that** |
| PB41 | Register | Student | Register account | I can access the system |
| PB42 | Login | Student | Access to the system by my account | I can use the system with my role |
| PB43 | Logout | Student | Add user | I can stop using system. I can log in later when I want to use system on next time. |
| PB44 | Change password | Student | Change my password | I can keep it secure or make it easier to remember |
| PB45 | Forgot Password | Student | Forgot Password | I can to get back my password account |
| PB46 | Reset password | Student | Reset password | I can reset password |
| PB47 | View Profile | Student | View Profile | I can view profile personal |
| PB48 | Edit Profile | Student | Edit Profile | I can edit profile of student |
| PB49 | Teamwork | Student | Teamwork | I can Teamwork with my friend |
| PB50 | Quiz& Test | Student | Quiz& Test | I can take the quiz on the system |
| PB51 | Post articles | Student | Post articles | I can post to find the answer |
| PB52 | View schedule | Student | View posts | I can review my school's posts |
| PB53 | Achievement Rating | Student | Achievement Rating | I can i can view achievement rating |
| PB54 | Conversation | Student | Conversation | I can make notes according to each school day |
| PB55 | Online attendance | Student | Online attendance | I can join an Online attendance |
| PB56 | Receive notifications | Student | Receive notifications | I can Receive notifications of school |

*Table 4: Product Backlog Specification (Student)*

## Break down into Sprint Backlog

|  |  |  |  |
| --- | --- | --- | --- |
| **Sprint** | **Function** | **Started day** | **Due day** |
| **SPRINT 1** | * [Server/Backend] [Server/backend] Register for student, homeroom teacher, subject teacher, school leadership, parent. * [Server/Backend] Forgot password * [Server/Backend] Login for student, homeroom teacher, subject teacher, school leadership, parent. * [Server/Backend] profile for student, homeroom teacher, subject teacher, school leadership, parent. * [Frontend] UI dashboard for student, homeroom teacher, subject teacher, school leadership, parent. * [Frontend] Show users page for admin. * [Frontend] Show the profile | 26/08/2021 | 15/09/2021 |
| **SPRINT 2** | * [Frontend] UI for show the schedule (student, homeroom teacher, subject teacher, school leadership, parent) * [Frontend] UI for teamwork (student) * [Frontend] UI for conversation * [Frontend] UI for receive notification * [Frontend] UI for detail page to edit profile (student, homeroom teacher, subject teacher, school leadership, parent.) * [Server/Backend] teamwork * [Server/Backend] Edit profile * [Server/Backend] receive notification * [Server/Backend] Edit ward and then update to the system * [Server/Backend] Show detail page to edit profile (student, homeroom teacher, subject teacher, school leadership, parent.) | 16/9/2021 | 6/10/2021 |
| **SPRINT 3** | * [Frontend] UI for post announcements (Shipper) * [Frontend] UI for post information of the ministry (Shipper) * [Frontend] UI for update learning results * [Frontend] UI for online attendance * [Frontend] UI for summary of subject rankings * [Server/Backend]post announcements * [Server/Backend] post information of the ministry * [Server/Backend] update learning results * [Server/Backend] online attendance (student, homeroom teacher, subject teacher.) * [Server/Backend] summary of subject rankings | 7/10/2021 | 03/11/2021 |
| **SPRINT 4** | * [Frontend] Detail page to take a day off * [Server/Backend] Update assessment homeroom teacher, subject teacher * [Server/Backend] send notifications to student * [Fronted] UI for the take a day off. * [Frontend] for the update assessment * [Server/Backend] send notifications to student receiver. | 4/11/2021 | 01/12/2021 |

*Table 4: Break down into Sprint Backlog*

1. **Constraint**

|  |  |
| --- | --- |
| **Constraint** | **Condition** |
| **Time** | Project completion time limit in 3 months so time to complete project be restricted |
| **People constraint** | 4 people working together to finish the project |
| **The integrated system** | Must be connected to Internet network to operate |
| **Requirements** | According to Product Owner’s Requirements |

*Table 5: Constraint*

1. **Stakeholders and User Descriptions Summary**

|  |  |  |
| --- | --- | --- |
| **Name** | **Description** | **Role** |
| **Product Owner** | The Person who give the Requirement | Provide information to develop the system. Make the decision to accept and implement the project, do the unit test |
| **Scrum Master** | This is the stakeholder who leading, manage the system development Team | Controlling, managing, monitoring, make sure the project completes on time, within budget, according to plan and according to requirements |
| **Requirement Analyzer** | This is a stakeholder that works with the Analysts to correctly translate requests or needs into requirements to be used for design | Specifies the details of one or more a part of the website’s functionality by describing one or the aspects of the requirements,  This will include functional and non-functional |
| **Software Architect** | This is a stakeholder that is primary for leading the system development | Responsible for the software architecture, which includes the key technical decisions that constrain the overall design for the project |
| **Coder** | This is a stakeholder that programs the software | Implement the project |

*Table 6: Stakeholders and User Descriptions Summary*