Sprint Planning Document

Overview

In the beginning of every iteration features are chosen for that iteration and are broken down into specific tasks that are then allocated to the team members. These tasks are also called the sprint backlog. Goals set for each sprint are used as a guideline for features that are selected for that sprint. Task take 4 hours to 3 days depending on their level of difficulty and level of knowledge of the member that the task is assigned to.

Roles

* Scrum master (I prefer team leader) – leads meetings
* Product owner – represents the customer, user or other stakeholders.

Writes user stories to describe the project’s goals and the prioritize them

* Team member – cross-functional team members who build the application

Product Backlog

* As a student I want to be able to register on the system so that I can have access to the services provided by the system
* As a student I want to be able to add course that I have completed and also the marks obtained on them so that I can get a recommendation(s) of the courses I can take for my post graduate studies
* As a student I want to get the predicted marks on the recommended courses so that I can decide on which courses to enroll for

“As a student I want to be able to add courses that I have completed together with the marks achieved so that I can get recommendations of the elective courses that I can take for my post graduate degree.”

* Add courses page, create the UI
* Create Courses table
* Add the course in the database
* Add the recommendation page, create UI
* Create the recommendation function using machine learning techniques

Acceptance Criteria

* User should be to retrieve the saved courses
* User should be able to delete and edit the courses
* User should be able to get recommendations based on the added coursed and their marks
* User should be able to get the predicted mark of the recommended courses

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| --- | --- | --- | --- |
| **Activity** | **1st iteration** | **2nd Iteration** | **3rd Iteration** |
| Project Preparation | Checkmark |  |  |
| Requirements Analysis | Checkmark |  |  |
| Project Design | Checkmark |  |  |
| Recommendation implementation |  | Checkmark |  |
| User interface implementation |  | Checkmark |  |
| Logic Implementation |  | Checkmark | Checkmark |
| Integration | Checkmark | Checkmark | Checkmark |
| Unit testing |  | Checkmark | Checkmark |
| Documentation | Checkmark | Checkmark | Checkmark |
| Final Product |  |  | Checkmark |

The table above shows a simplified activity plan that was carried out.

Sprint Retrospective

**1st iteration**

Objectives

This iteration aims to gather the requirements of the system and also to design the system architecture together with the system interface also determining the overall feasibility of the project

Tasks

What worked: Goals of the sprint where achieved and everything was done on time

What was challenging/ didn’t work:

How was it resolved:

Lessons learnt: ?

**2nd iteration**

Objective

What worked:

What was challenging/ didn’t work: 1. Other things took time to implement

2. Some tasks took longer than anticipated

How was it resolved: We broke the tasks further into smaller tasks which also helped in them being completed in the estimated time

**3rd iteration**

What worked:

What was challenging/ didn’t work:

How was it resolved:

Definitions

Product Backlog - these are the features to be implemented for the whole project, they are in a form of a user story, i.e. the sentence inside the ““.

User story – is a tool used to capture a description of a feature from an end-user perspective, format: As a <user type>, I want <goal> so that < reason>

Sprint backlog - is a subset of the product backlog, that is chosen by the team and broken down into manageable tasks and prioritized and completed in the sprint

Acceptance criteria - is when a task item is complete and working as expected