# **Technical Process**

## **4.1 Methods, Tools, and Techniques**

In this section, we have discussed about the tools and techniques that are used to build the project. It includes project management, documentation, and communication tools.

Team leader and scrum master will be responsible for controlling the empirical processes, self-organization, iterative development, value-based prioritization, and more importantly collaboration.

For project management, we are and will be using GitHub and Trello. For documentation, we are using MS-Word and Google Doc. For communication between the team members and the client, we are using MS-Teams, Gmail and Zoom etc. We are using Ms Teams and GitHub for document and code management. We will be using many technologies such as HTML5, CSS3, JS, PHP, MYSQL, HTMS, H5P, Moodle LMS and Power BI for project development. To recapitulate,

|  |  |
| --- | --- |
| **Tools** | **Functionalities/Uses** |
| GitHub | Project & Code Management |
| Trello | Project Management |
| MS-Word | Project Documentation |
| Google Doc. | Project Documentation |
| Zoom | Project Communication |
| MS Teams | Project Communication |
| HTML5 | Project Development |
| CSS3 | Project Development |
| JS | Project Development |
| PHP | Project Development |
| MYSQL | Project Development |
| HTMS | Project Development |
| H5P | Project Development |
| Moodle LMS and Power BI | Project Development |

## 4.2 **Software Documentation**

For creating user and technical documents we will be dividing the tasks. First of all, we will create a preliminary project plan, requirement elicitation and analysis specification. After that we will be creating the wireframes for our project. Subsequently, the whole project will be divided into many components and for each object, we will create designs. In the end, we will code and test our project prototype.

The main goal of the project is to develop an employability assessment toolkit. For this toolkit, we will need to create a user manual and an installation manual. We will be assisting in using and installing this toolkit. Project will ensure quality, verification, and validation.

This documentation will be reviewed and tested for accuracy by Muhammad Daniyal (Product owner) who will carry out review based on project progression and will make other team members aware of any changes that will be required.

# **High level Project Plan**

*There are five sprints planned for the project.*

* *Sprint 1: Research and documentation*

***Goal****: The main goal of this sprint is detailed research of the similar solutions.*

***Key objective:*** *For accomplishing this task, firstly we are performing research of solutions that are resembling to our project requirements as high lightened in the reference section of the document. After this we will be choosing the best proposed solution and subsequently, we will document the acquired information.*

***Outcomes:*** *Proper documentation of the project handbook*

* *Sprint 2: Specifications and wireframing of CV assessment tool*

***Goal****: The main goal of this sprint is to document the specifications and designing of wireframes for the CV assessment tool.*

***Key objective:*** *To carry out this task, we will write the requirements about the tool of what interfaces and designs we must use. Subsequently, detailed specifications will be provided. After this we will be using pencil software to develop the wireframe of CV assessment tool.*

***Outcomes:*** *Fully designed wireframe along with CV upload option having certain file uploading formats.*

* *Sprint 3: Specifications and wireframing of Career Development Planning tool*

***Goal****: The main purpose of this sprint is to document the specifications and designing of wireframes for the Career Development Planning tool including detailed feedback to the user.*

***Key objective:*** *First and foremost, we will write the requirements about the tool of what interfaces and designs we must use. Along with that we will decide the design of how to provide feedback to the users. Subsequently, detailed specifications will be provided. After this we will be using pencil software to develop the wireframe of Career Development Planning tool.*

***Outcomes:*** *Detailed specifications and recommendations to user based on future competencies.*

* *Sprint 4: Specifications and wireframing of Career Assessment Tool*

***Goal****: The purpose of this sprint is to document the specifications and designing of wireframes for the Career Assessment tool including detailed feedback to the user.*

***Key objective:*** *First and foremost, we will design questionnaire in which the user will be asked to answer questions related to the desired job roles and responsibilities. Subsequently, we will decide of how to provide recommendations to the user so that they will be able to find a suitable job based on their desired fields. After this we will design the Career Assessment Tool and will include specifications in the document.*

***Outcomes:*** *Detailed questionnaire, recommendations and feedback to users, document specifications*

* *Sprint 5: Technical documentation and testing*

***Goal****: The rudimentary goal is to document the technical needs of the project and to test the designed wireframes.*

***Key objective:*** *Firstly, we will be high lighting the technical requirements of the project and initiative by Employability.life. After this we will test our designed wireframes and will showcase the completed work to client.*

***Outcomes:*** *Complete employability assessment portal and documentations along with certain documentation.*

*Following are the links that are referencing to our online project board:*

***GitHub project link:***

[*https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02*](https://github.com/ITECH3208andITECH3209feduni/project-repo-project-x02)

***Trello project link:***

[*https://trello.com/itech3208projectx02team/members*](https://trello.com/itech3208projectx02team/members)