Logo

Description automatically generated

**Course Name:** Computing with Software Development

**Year/Semester:** Year 4 / Semester 7

**Module Title:** Final Year Project

**Project Title:** Virtual Learning Environment (VLE)

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Feature Log

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Table of Contents

[Feature Log Table 3](#_Toc188899101)

[Status Legend 3](#_Toc188899102)

[Iterations 5](#_Toc188899103)

[Iteration 1 5](#_Toc188899104)

[Iteration 2 5](#_Toc188899105)

[Iteration 3 6](#_Toc188899106)

# Feature Log Table

## Status Legend

* **Pending**: The feature is scheduled for development but has not started yet.
* **In Progress**: The feature is currently being developed.
* **Complete**: The feature has been fully developed and integrated into the project.
* **Wishlist**: The feature is considered for future development if time permits but is not currently prioritised.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Name** | **Description** | **Priority** | **Status** |
| F00 | Application Prototype | Basic demonstration of sending and retrieving data. Includes basic input fields in Angular application using ASP.NET Core API that fetches data from database to display in the UI. | High | Complete |
| F01 | User Registration | Allow new users to create accounts. | High | Complete |
| F02 | User Login | Allow registered users to login to their accounts. | High | Complete |
| F03 | User Logout | Allows logged in users to log out. | High | Complete |
| F04 | Module Creation | Allows admins/instructors to create and configure module. Possible option to edit existing module. | High | Complete |
| F05 | Module Enrolment | Allows students to browse, search, and enrol in courses/modules. | High | Complete |
| F06 | Browse Modules | Allows users to browse all modules. | High | In Progress |
| F07 | Search Modules | Allows users to search for a specific module. | High | In Progress |
| F08 | Content Delivery | Allows instructors to upload and manage course/module materials. Possible option to edit existing content. | High | Pending |
| F09 | Assignment Creation | Allows instructors to create assignments. Possible option to edit created assignment. | High | Pending |
| F10 | Assignment Submission | Allows students to submit assignments | High | Pending |
| F11 | Grading/Feedback System | Allows instructors to update assignment grades and provide feedback. Possible option to edit grade/feedback. | High | Pending |
| F12 | Quiz Creation | Allows instructors to create quizzes | Medium | Pending |
| F13 | Quiz Auto-Grading | Automatically grades multiple choice quizzes after completion. | Medium | Pending |
| F14 | Dashboard Analytics | Displays metrics on user dashboard. | Medium | Pending |
| F15 | Real-Time Notification | Sends real-time notifications such as announcements, new contents and assignments, grades, and deadlines. | Medium | Pending |
| F16 | Chat System | Provides real-time messaging between users. | Low | Wishlist |
| F17 | User Profile | Allows users to create/update their own profile and view user profiles. | Low | Wishlist |
| F18 | Gamification | Implements gamification such as badges and leaderboards. | Low | Wishlist |

# Iterations

## Iteration 1

|  |  |
| --- | --- |
| **Iteration 1** |  |
| Date of Milestone | 09/11/2024 |
| Features in Scope | Application Prototype (Angular UI, ASP.NET Core API) |
| Features Implemented | Application Prototype (Angular UI, ASP.NET Core API) |
| Features in Deficit | N/A |
| Iteration Comments & Summary | A simple Angular UI is created with a couple of fields for user input. Basic API (GET and POST) is also created which is used to send data to the database and retrieve it to display in the UI. Database is in local but will be migrated to Azure SQL at later stage of the development. Database schema currently being planned then moving on to next features. |

## Iteration 2

|  |  |
| --- | --- |
| **Iteration 2** |  |
| Date of Milestone | 01/12/2024 |
| Features in Scope | User Registration, User Login, User Logout |
| Features Implemented | User Registration, User Login, User Logout |
| Features in Deficit | Module Create/Enrolment |
| Iteration Comments & Summary | User registration, login, and logout implemented. User management and authentication using ASP.NET Identity and JWT token is also used to generate session token if a user is logged in successfully. Simple UI with Bootstrap navigation bar is used for now with appropriate buttons being displayed/hidden based on user state (logged in or out). Angular frontend has a simple home page component with will display relevant content for users e.g., list of enrolled modules for students. Module creation and enrolment was initially planned also but will have to be moved to the next iteration as top priority. |

## Iteration 3

|  |  |
| --- | --- |
| **Iteration 3** |  |
| Date of Milestone | 16/12/2024 |
| Features in Scope | Module Creation, Module Enrolment |
| Features Implemented | Module Creation |
| Features in Deficit | Module Enrolment |
| Iteration Comments & Summary | Module creation (backend) feature is almost completed as of writing. Run into authorisation and migration issues but will have the code pushed in the next hour or so. Module enrolment has been delayed once again due to backlog in CAs but will catch up during the break as discussed in the meeting. |