

Assignment 2 Brief



Product Name	Applied Degree in Software Engineering (BDSE)
Qualification Name	Applied Degree in Software Engineering/ Higher Diploma in Software Engineering
Assignment title	Development and Deployment Environment Review
Module Name (BDSE)	Develop Enterprise Applications

Purpose of this Assignment

This assignment is used for the following:

- Formative Assessment of learners in the Module 'Develop Enterprise Applications' of the Course 'Applied Degree in Software Engineering'.

In this Assignment, you must identify the business processes, data types and support mechanisms to develop the business intelligence solution.

This assignment gives you an opportunity to demonstrate your capabilities in the following areas:

- Choose an appropriate design and development methodologies with tools and techniques
- Evaluate the available options and choose a suitable environment in which to design and develop the application

Scenario

You are currently working as a full-stack web developer in a leading enterprise solution provider called Unity One Solutions. The company wanted to implement the project "Meals On Wheels". Your manager, Mr. David assigned you to design the software. You are required to work with your teammates and submit the design proposal, development plan, functional application.

MerryMeal is a charitable organization that prepares and delivers a hot noon meal to qualified adults living at home who are unable to cook for themselves or maintain their nutritional status due to age, disease, or disability. The service will be available Monday through Friday. Frozen meals will be provided to members who are not within a 10-kilometer radius of their outsourced kitchens and support over the weekend. MerryMeal has partnered with several food service providers across the country to provide the quickest delivery possible.

The Application should allow

1. Members and Care givers registration with their requirements
2. Partners and Volunteers registration with their details
3. Fund raising through Donors / Supporters
4. Menu Planning and Preparation
5. Meal Delivery Management of partners and riders
6. Food Safety Management
7. Reassessment of need evaluation, and,
8. Management Information System for effective management

Your team is required to

1. **Conduct Development and Deployment Environment Review**
 - The suitable environment in which to design and develop your application.
 - Comparison of different software tools, techniques, and methodologies preferred to build with justifications.

Assignment Guidelines

You should follow the below guidelines while implementing the Assignment. Learner is required to:

- Compare SDLC, Tools, Frameworks, etc.
- Discuss the strength and weakness, security implications
- Choose the suitable tools and technologies with proper justifications
- Revise the system design document

It is suggested that you use a combination of written, tabulated, and diagrammatic information in your report.

Assignment Technical Environment

The student should perform the assignment in the below environment. The student should have the following tools installed on his/her Windows 10 / Macintosh laptop with 8 GB RAM or equivalent.

- Visual Studio Code or any other Integrated Development Environment (IDE)
- PHPMyAdmin
- Laravel
- Spring/Spring BOOT
- REACT
- Angular
- Apache Tomcat
- MySQL Server & any MySQL database management tool
- MS Office/OpenOffice tools

Assignment Assumptions

You can make following assumptions while implementing the assignment:

- This assignment is not for commercial use and hence not fine-tuned for performance, but it is desirable that you focus on performance issues and address them, if any