

Assignment 2 Guidance

Task 1 – Peer Review and Feedback Analysis (P4 – M3)

You will have to:

- Create a formal questionnaire that effectively reviews your business application, problem definition statement, proposed solution and development strategy.
- Use this questionnaire as part of a peer-review and document any feedback given
- Interpret your peer-review feedback and identify opportunities not previously considered
- Evaluate any new insights, ideas or potential improvements to your system and justify the reasons why you have chosen to include (or not to include) them as part of this business application.

Task 2 – Application Development (P5 – M4)

You will have to use selected tools, techniques and technologies to develop a functional business application based on SRS in the previous assignment.

General Requirements

You can choose suitable programming language and MVC web framework to implement the application

- **The application MUST have at least 12 web pages (views)**
- **The application MUST have at least 4 independent entity models**
- **The application MUST have at least 4 controllers**
- The application **SHOULD** have the feature to extract report
- You have to additionally use **HTML5, CSS3** to create the content and to stylize your web application
- You may optionally use **JavaScript, jQuery, Bootstrap, Ajax**

Forbidden Techniques and Tools

- Using CMS / blog systems (like WordPress, Drupal and Joomla) is forbidden.
- Using Scaffolding method is forbidden

User source control system

- **Use GitHub** or other source control system as project collaboration platform and commit your work
- Submit a link to your source code repository in the report
 - The repository must be **private** and **is accessible** to the Assessor / Lecturer during the Presentation / Demonstration.
- You should have commits in at least 3 DIFFERENT days

- You should have at least 10 commits

Deployment

- Use suitable service to deploy your application (IIS Local Server, Azure, Heroku, AWS, GCP, etc.)
- Submit a link of your deployment.

Presentation

- You will perform the demonstration of your application.
- During the demonstration, you will also answer technical questions asked by the Lecturer.

Then, you will have to include evidences that the system has been developed successfully (images, sample source code, GitHub repository, folder structure, result of the deployment etc.)

Task 3 – Application Evaluation (P6 – M5)

For this part, you will have to:

- Review the performance of your business application against the Problem Definition Statement and initial requirements. You will have to conclude whether your final application adapts all requirements or it needs to be improved later.
- Analyse the factors that influence the performance of a business application and use them to undertake a critical review of the design, development and testing stages of your application. Conclude your review by reflectively discussing your previously identified risks.
- Critically evaluate the strengths and weaknesses of your business application and fully justify opportunities for improvement and further development.

Report Structure

Chapter 1 – Peer Review and Feedback Analysis

1. Formal questionnaire to reviews the business application, problem definition statement, proposed solution and development strategy
2. Collect review feedbacks
3. Interpret peer-review feedbacks
4. Evaluate any new insights, ideas or potential improvements

Chapter 2 – Application Development

1. Folder structure of the application
2. Source code samples of the application with explanation
3. Final screenshots of the application
4. Screenshots of using GitHub or GitLab to manage the source code
5. Screenshots of using IIS or Azure for the application deployment

Chapter 3 – Application Evaluation

1. Review the performance of the application
2. Conclude whether the application adapts all requirements or it needs to be improved later
3. Analyse the factors that influence the performance of the application
4. Evaluate the strengths and weaknesses of the application