

FIT2001 – Assignment 3: Prototyping, Usability & Interface Design

ASSIGNMENT INFORMATION

Title: Prototyping, Usability & Interface Design

Due Dates:

Assignment 3 – Prototyping, Usability & Interface Design <ul style="list-style-type: none">• Prototypes & Persona• Demonstration of Prototypes	Due: Sunday 22 May, 2022, 4:30pm Due: During Week 12 Tutorial – Week beginning 23 May, 2022
Self and Peer Assessment 3	Due: Week 12 - After Demonstration at Tutorial – at the latest by Friday 27 May, 2022 4:30pm

Group Assignment: You will complete this assignment in your allocated team.

IMPORTANT NOTE: Marks for individual team members may vary based on peer assessment, tutor observation and discussion with the group. All team members must complete the self and peer assessment for the assignment. Failure to complete the peer assessment by the due date will most likely result in a fail mark for the assignment.

Value:

Assignment 3 is worth 14% of the final mark.

This assignment will give you the opportunity to integrate and develop your analytical, modelling and communication skills. Specifically, it will help you:

- Understand the value of prototyping in helping identify and document user requirements accurately and completely;
- Develop your interface design skills, considering functional requirements, personas, standards, usability and interface design principles;
- Develop your presentation and communication skills.

Assignment outline:

You have been given the task of gathering and documenting the requirements for a new information system for Sha Pregnancy Gestational Diabetes Clinic using prototyping to understand and confirm the business requirements, and design the system interfaces.

Assessment criteria:

A detailed marking scheme is available in the Assignments section on Moodle. We highly recommend you review the marking scheme before commencing the assignment.

FIT2001 – Assignment 3: Prototyping, Usability & Interface Design

Assignment help:

Please watch Assignment 3 video. Students are encouraged to post questions about the assignment and the system on the Ed Discussion forum – Assignment 3 section. We will have an FAQs post pinned in the Assignment 3 section. Please read the FAQs and the Assignment 3 forum before posting your question, as your question may have already been answered. Please do not post answers for staff to review on the forum.

NOTE: Staff will make every attempt to answer questions promptly – NOT necessarily immediately.

Assignment planning and management:

Assignment planning and management must be done using the Trello Kanban project management tool. Failure to actively use Trello will result in a reduction in your Team Assignment Project Management mark.

Extensions:

If there are extenuating circumstances that require an extension, please contact your campus lecturer.

Submission process:

- **Assignment 3 should only be submitted once via Moodle, by a single member of the team. Please note that the similar detection software Turnitin will be enabled.**
- The file name of the submission should follow this format:
 - FIT2001_Assignment3_Team[yourTeamID].pdf
 - e.g. FIT2001_Assignment3_Team96.pdf
- All team members are responsible for the final submission, and therefore every team member should review the final version, prior to its submission.
- **Each team member must accept the digital declaration statement on Moodle.** Failure to do so will result in your assignment not being submitted correctly, and thus not being marked.
- Ideally, a single file (PDF) should contain the entire submission, if there is a need for multiple files, all files need to be in pdf format.

ASSIGNMENT REQUIREMENTS

This assignment will help you understand and develop prototypes of the business requirements of the system desired by Sha Pregnancy Gestational Diabetes Clinic. Use the 'Sha Pregnancy Gestational Diabetes Clinic System Detailed Description' and the associated sample forms (See Assignment 3 section of FIT2001 Moodle site), and the information received during the Interview and User Story Mapping Workshop with the client Dr. Sha, to complete the following tasks.

Assumptions: Please make sure to note any assumptions made for each of the tasks

PROTOYPING (76%)

Construct complete interface mock-up prototypes (wireframe models) for the following business functionality:

- Manage Doctor
 - Create, Update, Archive and View Doctor details (Admin)
 - Manage doctor credentials – registration and specialization (Admin)
- Manage Patient
 - Create, Update, Archive and View Patient details (Admin & Patient)
 - Manage patient doctor allocation (Admin)
- Manage Patient Diary
 - Record diary entry (Patient)
 - Provide automated diary reminders (System)
 - Provide automated feedback (System)
- Review Patient
 - Review diary data and provide feedback (Doctor)
 - Record appointment notes (Doctor)
 - Provide resources to patient (Doctor)

(NOTE: Assume that feedback, reminder and resource data are already in the system ready to be used as required)

The purpose of the prototypes, is to show that you understand the system requirements for the required business functionality, and have thought about error handling, messages, standards, usability and human computer interaction principles in your design.

You must include:

- The prototypes for the required business functionality
- A brief description of how each screen works (use Tutorial 9 student support information as a guide as to how you can do this – it is NOT meant to be a proper, detailed user guide). You must include ALL error messages and any other messages associated with the functionality of the screens.

FIT2001 – Assignment 3: Prototyping, Usability & Interface Design

- The Patient persona to assist with the development of your interfaces – you will need to make assumptions as you cannot conduct the research
- A research plan to create your persona - a brief description (not more than 200 words) of the research you would conduct and analysis you would do if it was possible

You may use any tool you wish to create the mock-ups of the system. **Please ensure that your tool will be available for your use for the demonstration of your prototypes in Week 12 as some tools only have free 30-day trial.** You may want to consider one the following options to develop your prototypes:

Balsamiq (only 30 day trial), Diagrams.net, Miro, Lucidchart (paid service).

Deliverables:

1. Prototypes – showing each screen, a description of how it works – including all error messages and any other messages, and all the links between the screens for the specified functionality
2. Patient Persona and research plan for developing the persona

DEMONSTRATION OF PROTOYPES (20%)

+ (Minus 50% of individual mark for Assignment 3 for non-attendance at demonstration)

Using the prototypes you have created and submitted, demonstrate/explain to your client how the prototypes work and how all their business needs are addressed. Discuss the functionality in terms of the various personas (users) using the system.

Please note the following:

- ALL members of each team must participate in the presentation - we would like all of you to get the opportunity to practise your presentation skills;
- You must consider the most logical and concise way to present your prototypes within the 15 minutes timeframe - *Practice together as a team to ensure that you meet the time requirement, as your presentation will be stopped at the 15-minute mark and you will be assessed on whatever you have presented during that time.*
- You will be assessed on your prototypes based on the assessment criteria you have been given. The tutors will be assessing your prototypes during the presentation, and will also use your uploaded prototypes to finalise your mark;
- You have ~15 minutes to demonstrate your prototypes
 - On-campus - Project to the monitors using MirrorOp
 - Online classes: Use the share screen facility in Zoom – Cameras of all team members MUST BE ON

Deliverable:

- You are not required to hand in anything for this component of the assignment.
- **Attendance at the demonstration is mandatory.** Failure to attend the demonstration without a valid reason and appropriate evidence, will result in a 50% reduction of your final individual mark for Assignment 3.

REPORT PRESENTATION AND TEAM ASSIGNMENT PROJECT MANAGEMENT (4%)

- Assignment 3 should be submitted in a basic Report format – See Assessment criteria for details.
- For the Team Assignment Project Management, please refer to the section “Assignment planning and management:” on page 2 of this document.

ASSIGNMENT 3 SELF & PEER ASSESSMENT

Please see the Assignments section of the Moodle page for details of how to do this using the FeedbackFruits system. You must only complete your FeedbackFruits assessment after the Week 12 demonstration of your prototypes, and before the due date. Failure to complete the peer assessment will most likely result in a fail mark for the assignment.