

## Course Project Assignment #1 - Front End Requirements

Due Friday, Oct. 5th

In this assignment, you will analyze the requirements for the Front End (only), and in true XP fashion represent those requirements as a set of requirements tests. The basic idea is to analyze the requirements document (project description below, choose **only one** project idea from the given ones for your group) for the Front End, partition it into **separate testable pieces**, and create **a test case for each piece**. We will study this more in class. The project idea to choose from are the following. Just pick anyone and start working.

**Project description 1:** Task management system online

The aim here is to create an online task management system. This system shall allow users to create, manage, and track tasks and projects. Users can create individual tasks, organize them into projects, set priorities and deadlines, assign tasks to team members, and monitor task progress throughout the completion of the project.

**Project description 2:** Online food delivery platform

The aim here is to create an online food delivery platform that connects users with local restaurants. The system allows users to browse menus, place orders, make payments, and have food delivered to their doorstep. The platform shall provide a seamless and user-friendly experience for both customers and restaurant owners.

**Project description 3:**

The goal here is to create an e-learning platform that provides a wide variety of courses and resources to help users. The system facilitates developing new skills, advance user's careers, and promote achieving personal and professional growth. The platform should offer a user-friendly interface, engaging content, and interactive features to facilitate effective online learning.

Create and organize a complete set of requirements tests for the Front End, to test for every required behavior (of the Front End only). **Do not write any programs yet.** Each test should be a complete test session input stream in a separate file. Test files should be organized into directories or by naming convention.

Here is an example front-end requirement for a similar project, and it's xp-based test case:

**User Registration:**

Users shall be able to register for a new account with a username, email, and password.

**Test Case Name: User Registration**

Objective: To verify that users can successfully register for an account.

Arrange: Open the registration page.

Act: Fill in valid user details (e.g., username, email, password) and click the "Register" button.

Assert: Check that the user is registered and redirected to the login page with a success message.

Note: there may be one or many test cases defined for a front-end requirement.

➤ What you should hand in:

- (1) a list of all your test cases and what they are intended to test
- (2) for each test case, the actual test input file and expected output file (as text files, or tables); and
- (3) a test plan document, outlining how your tests are organized (in a folder per feature, or whatever), and how you intend to run the test cases and how you intend to check the output for correction.

- Hand-ins should be as a .pdf main document plus the test inputs in folder(s), submitted by onQ dropbox by the due date.