Dwebble:
Testing Document and Specifications

Test Specification

Group 12

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Test Case ID:	1.1
Title:	User Login Test
Function:	User Authentication
Purpose:	Checking whether a legitimate user including admin staff and instructors can log in successfully with the unique login details or not,
Initial Conditions:	User must have a set of unique, login credentials, username and password for the system.
Test Data:	For an Admin Staff, Username: Valid Admin Staff ID Password: valid password For an instructor, Username: Valid instructor Staff ID Password: valid password
Test Actions:	1. Go to the user interface 2. Enter username and password in the login form 3. Click on submit
Expected Results:	Successfully logged in to the portal based on their role. For example, an admin will be given access to the admin portal and an instructor will be given access to the instructor's portal.

Test Case ID:	1.2
Title:	Class Add Test
Function:	Adding a new class in the system
Purpose:	To check whether an admin staff can add a new class into the system successfully or not.
Initial Conditions:	Admin staff must be logged in successfully to the system.

Test Data:	Class Details
	Class Name: Valid Class name for a course
	Course Name: Course Name in the University
	Start Date: An upcoming date
	Finish Date: Must be greater than the start date.
	Duration of each class: {1,2} hours
	Preferred rooms: Up to three preferred room numbers selected
	Preferred List of Instructors: Up to three instructors selected. The first one is given the most priority.
Test Actions:	1. Click on Add New Class button 2. Add class name 3. Select Course name 4. Select start date 5. Select finish date 6. Select the duration of the class 7. Select up to three rooms with preferences 8. Select up to three instructors with preferences 9. Click on Submit
Expected Results:	Notification on new class created, showing the class in an upcoming class list and automated notifications sent to instructors who have been selected for the classes.

Test Case ID:	1.3
Title:	Schedule Generation Test
Function:	Generating a schedule by setting some rules
Purpose:	An admin staff must be able to set rules for a schedule
Initial Conditions:	Class, room details, and instructors' preference details are already available in the system And admin staff is logged in to the system
Test Data:	Rules
	Must be after class xxxx
	Class time should range between a specific period in the day
	Pre-requisites if any

	Number of classes in a week
Test Actions:	1. Select classes for which schedule is to be created 2. Select rules by selecting the data fields according to the rules for each class separately 3. Click submit
Expected Results:	Either, it must generate at least one schedule following the rules and preferences selected for it. Or, it will show an error message saying no schedule is possible.

Test Case ID:	1.4
Title:	Selecting Schedule Test
Function:	Select Schedule
Purpose:	Choosing one schedule for a list of schedule generated by the system if there is more than one schedule generated under some given rules and constraints.
Initial Conditions:	The system must have generated more than one schedules under some given rules and conditions. And the system admin staff must be logged in to the system.
Test Data:	One schedule selected from a list
Test Actions:	• Open the list of possible schedules • Select one schedule • Click on 'Confirm Schedule'
Expected Results:	The system must finalize the schedule and must send automatically generated notifications to all instructors in the schedule.

Test Case ID:	1.5
Title:	Setting Preference Test
Function:	Instructor Setting Preferences

Purpose:	An instructor must be able to set his/her preference for an upcoming class when the instructor is notified by the system
Initial Conditions:	The instructor gets a notification from the system asking for response on showing his/her interest in taking an upcoming class added by admin staff. The instructor is logged in to the portal successfully
Test Data:	Approval or denial from an instructor on a class preference setting.
Test Actions:	1. Open the notification 2. Either selected interested or select not interested 3. Click to submit
Expected Results:	The system will have updated by saving the preference of the instructor and will add this information to the respective class description.

Test Case ID:	1.6
Title:	Check Schedule
Function:	Checking schedule
Purpose:	Allowing an instructor to check personalized schedules at any point in time
Initial Conditions:	An instructor must be logged in to the system There must be a schedule on-going or new, having classes from the instructor
Test Data:	Schedules for an instructor Default date or a selected date
Test Actions:	1. Select a date 2. Select an active schedule 3. Open schedule 4. Check upcoming classes 5. Either save or print the schedule optionally
Expected Results:	An instructor can see his schedule personalized for his lasses only.