**Object Oriented Analysis and Design with Software Engineering Laboratory**

**Subject Code: UE18CS355**

**Sample Test Case: Reminder Email**

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| Test Case ID | Name of Module | Test case description | Pre-conditions | Test Steps | Test data | Expected Results | Actual Result | Test Result |
| UT-01 | Email Reminder-01 | To test output if emails are not available | Appointments should be not scheduled, or it is not the next day. | 1: Get data from database  2: Filter email to send the mail to patients who have appointment next day  3: Call reminder function | Data from Appointment table from database | No emails to send should be print on the screen. | No emails found | Pass |
| UT-02 | Email  Reminder-02 | To test output if emails are available | Appointments should be scheduled, or it is the next day. | 1: Get data from database  2: Filter email to send the mail to patients who have appointment next day  3: Call reminder function | Data from Appointment table from database | List of patients to whom the email should be sent | All reminders sent | Pass |
| UT-03 | Email Reminder-03 | To test output if directory or path to db not available | No path to db | 1: Get data from database  2: Filter email to send the mail to patients who have appointment next day  3: Call reminder function | No data | Running the program should provide an error | Path not found error | Pass |
| UT-04 | Email Reminder-04 | To test output if user didn’t opt for reminder | Appointments should be scheduled | Run reminder | Data from Appointment table from database | No emails to send should be print on the screen. | Email not sent | Pass |
| UT-05 | Invalid date for email remainder | To test if the given date is valid or invalid | Appointment should be scheduled but the reminder is not sent | 1: Book appointment with the wrong date  2: Run reminder | Data from the appointment table in database | No mail should be sent to the user and the user will not be diagnosed | Email not sent | Pass |
| UT-06 | Privacy related Email and password of the company | To check the if the code is written in a way to preserver Privacy of email | Code for company email login should be written | 1: start and complete the email login code | Lines of code for email login | Email and passwords should be hashed | No hashing of emails and passwords | Fail |
| UT-07 | Privacy related Email and password of the customer | To check the if the users database is hashed and salted to preserver Privacy of users | Users and appointments database should be implemented | 1: create the users database  2: create appointments database and fill it with the schedule  3: check if the details are encrypted | Data from the appointments and users database | Data of all the patients/users should be encrypted | No encryption implemented | Fail |
| UT-08 | Customer email validation | To check if the users provide valid mail id | Users should have their accounts created or logged in | 1: check if the reminder column appointments database is not empty  2: get the emails of all the patients who opted for the email reminders | User and appointment details from their respective databases. | Raise an exception id the email or domain of email id is not valid. | Exception not raised if the provided email id is not valid | Fail |