TESTING COMPLIANCE REPORT

for

Online Placement Information Gathering System

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1 Unit Testing

We followed the following steps for Unit Testing of the software:

- Examination of requirements and specification of the software.

- Equivalence classes are created by considering all possible valid and invalid inputs for various scenarios.

- Proper inputs from each possible equivalence class are designed.

- For each input, the expected output and actual output is determined.

- Since the implementation is completed, the expected output is compared with the actual output.

We tested our application using both manual testing and automated testing. For automated testing, **pytest-django** framework was used which helped in the testing of backend functions.

We test functions of different users separately as shown below.

1.1 Student

We tested the following functionalities for Students:

1.1.1 Student CRUD operations

Input	Expected Output	Actual Output
Create student with all details and check all details	All the details (except password as it is encrypted) as used while creation should be same	All the details as used while creation are same in profile page
Create student without a detail	Failure response	Got error message
Create student with same email as already used	Failure response	Got error message
Create student with short password (below 8 characters)	Failure response	Got error message
GET student details (except password) while logged in as any other type of users	Shall return the same details used while creation	Got student details from profile page
Update student details and GET student details for a student	Shall return updated values	Got updated details in profile page
Delete student and try to GET student	Failure response	Got error message

1.1.2 login()

Input	Expected Output	Actual output
Login as student client that exists	Should return success response and apply to company shall work	Logged in successfully
Login as student client that does not exist	Failure response	Failure Response
Login with wrong password	Failure response	Failure Response

1.1.3 signup()

Input	Expected Output	Actual Output
Sign up with existing email	Should return "user exists" error	Cannot register with same email
Sign up as a valid user with valid password and GET the user	Should return the details (except password) of user used to sign up	Registered successfully
Sign up with invalid password (less than 8 characters)	Should return "invalid password" error	Invalid password

1.1.4 upload_resume()

Input	Expected Output	Actual Output
Try to upload file with wrong extension	Should return failure response	Failure Response
Upload proper pdf	Should return success response	Uploaded resume successfully

1.1.5 apply_for_company()

Input	Expected Output	Actual Output
Send apply request with student login to a specific company and query the database for students applied in a company and companies applied by the student and check if the respective entities are present	True for student in students applied to company and True for company in companies applied by the student	Student present in applicants list thus applied for company successfully

1.1.6 view_notifications()

Input	Expected Output	Actual Output
Delete all notification from database	Shall return no notification in http response	No notifications present
Testing incoming notifications by accepting student's apply request by logging in as company	Shall return the list of notifications for the apply request's accepted	Notification received
Testing the incoming notifications by making announcement from InstituteAdmin side	Shall return the list of notifications for the announcements	Notification received

1.2 CompanyAdmin

We tested the following functionalities for CompanyAdmin:

1.2.1 CompanyAdmin CRUD operations

Input	Expected Output	Actual Output
Create company with all details and check all details	All the details (except password as it is encrypted) as used while creation should be same	All the details as used while creation are same in profile page
Create company without a detail	Failure response	Got error message
Create company with same email as already used	Failure response	Got error message
Create company with short password (below 8 characters)	Failure response	Got error message
GET company details (except password) while logged in as any other type of users	Shall return the same details used while creation	Got company details from profile page
Update company details and GET student details for a student	Shall return updated values	Got updated details in profile page
Delete company and try to GET student	Failure response	Got error message

1.2.2 login()

Input	Expected Output	Actual output
Login as company client that exists	Should return success response	Logged in successfully
Login as company client that does not exist	Failure response	Failure Response
Login with wrong password	Failure response	Failure Response

1.2.3 signup()

Input	Expected Output	Actual Output
Sign up with existing email	Should return "user exists" error	Cannot register with same email
Sign up as a valid user with valid password and GET the user	Should return the details (except password) of user used to sign up	Registered successfully
Sign up with invalid password (less than 8 characters)	Should return "invalid password" error	Invalid password

1.2.4 view_resume()

Input	Expected Output	Actual Output
'GET request' for student's resume for a student in its applied list	Should return success response	Resume view succcessful

1.2.5 post_recruitment()

Input	Expected Output	Actual Output
Create a new recruitment while logged in as Company and query the database for the recruitment	Should return a recruitment with the same details	Recruitment posted succesfully

1.2.6 view_notifications()

Input	Expected Output	Actual Output
Delete all notification from database	Shall return no notification in http response	No notifications present
Testing the incoming application of a student by sending apply request from a student to the company	Shall return the list of notifications for the students who applied	Got notification
Testing the incoming notifications by making announcement from InstituteAdmin side	Shall return the list of notifications for the announcements	Got notification

1.3 Alumni

We tested the following functionalities for Alumni

1.3.1 Alumni CRUD operations

Input	Expected Output	Actual Output
Create alumnus with all details and check all details	All the details (except password as it is encrypted) as used while creation should be same	All the details as used while creation are same in profile page
Create alumnus without a detail	Failure response	Got error message
Create alumnus with same email as already used	Failure response	Got error message
Create alumnus with short password (below 8 characters)	Failure response	Got error message
GET alumnus details (except password) while logged in as any other type of users	Shall return the same details used while creation	Got alumnus details from profile page
Update alumnus details and GET student details for a student	Shall return updated values	Got updated details in profile page
Delete alumnus and try to GET student	Failure response	Got error message

1.3.2 login()

Input	Expected Output	Actual output
Login as alumnus client that exists	Should return success response	Logged in successfully
Login as alumnus client that does not exist	Failure response	Failure Response
Login with wrong password	Failure response	Failure Response

1.3.3 signup()

Input	Expected Output	Actual Output
Sign up with existing email	Should return "user exists" error	Cannot register with same email
Sign up as a valid user with valid password and GET the user	Should return the details (except password) of user used to sign up	Registered successfully
Sign up with invalid password (less than 8 characters)	Should return "invalid password" error	Invalid password

1.3.4 give_feedback()

Input	Expected Output	Actual Output
Add feedback (test) to a company he/she worked	Feedback should be updated	Feedback updated successfully

1.3.5 view_notifications()

Input	Expected Output	Actual Output
Delete all notification from database	Shall return no notification in http response	No notifications present
Testing the incoming notifications by making announcement from InstituteAdmin side	Shall return the list of notifications for the announcements	Notification received

1.4 InstituteAdmin

1.4.1 login()

Input	Expected Output	Actual output
Login as administration client that exists	Should return success response	Logged in successfully
Login as administration client that does not exist	Failure response	Failure Response
Login with wrong password	Failure response	Failure Response

1.4.2 signup()

Input	Expected Output	Actual Output
Sign up with existing email	Should return "user exists" error	Cannot register with same email
Sign up as a valid user with valid password and GET the user	Should return the details (except password) of user used to sign up	Registered successfully
Sign up with invalid password (less than 8 characters)	Should return "invalid password" error	Invalid password

1.4.3 verify_company()

Input	Expected Output	Actual Output
Verify and accept a company which tried to signup	Should return success response and company shall get access to the platform	Company accepted and can use the portal's functionalities
Verify and reject a company which tried to signup	Should return success response and company shall get a notification about rejection and shall not be get access to any other features on the platform	Company rejected and cannot use the portal's functionalities

1.4.4 post_announcements()

Input	Expected Output	Actual Output
Post some announcements and GET the announcements from database	Should return announcements with the same details as posted	Announcement posted successfully