CS 387: Database and Information Systems Lab

Test Plan: **Placement Portal**

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Contents

1 Team members

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2 Functional Testing

2.1 Student

Sr. No	Usecase	type	Test
1.	Registering on the Portal	✗	Email already registered
		✗	Roll No already registered
		✗	Password has less than 8 alphanumeric characters.
		✓	Email & Roll No not already registered and password has atleast 8 alphanumeric characters.
2.	Logging on to the Portal	✗	Roll No not already registered
		✗	Wrong Password
		✓	Roll No already registered and password matches.
3.	Editing Personal Details	✗	gender other than M,F,others.
		✗	dob not in correct range and format.
		✗	email correct format and not already used.
		✗	contact no correct format.
		✓	Successful update if above tests pass.
4.	Uploading Resume	✗	file uploaded not in pdf format
		✓	file in pdf.
5.	Apply to JAF	✗	Not Eligible for the JAF or already applied
		✓	Successfully apply if eligible

2.2 Recruiter

Sr. No	Usecase	type	Test
1.	Registering on the Portal	✗	Email already registered
		✗	Contact No. or Email incorrect format
		✗	Company Name not already stored in the database.
		✗	Password has less than 8 alphanumeric characters.
		✓	If above test passes then successful registration.
2.	Logging on to the Portal	✗	Username(email-id) not already registered
		✗	Wrong Password
		✓	username already registered and password matches.
3.	Editing Personal Details	✗	email correct format and not already used.
		✗	contact no correct format.
		✓	Successful update if above tests pass.
4.	Create and Editing JAF	✗	currency not valid
		✗	gross ctc not numeric
		✗	profile not already present in the database
		✗	eligibility rmpty
		✓	if all above tests pass then successfully create or edit the jaf
5.	Changing status of students	✗	status not one of possible options
		✓	Successfully change if jaf exists and student applied

2.3 Coordinator

Sr. No	Usecase	type	Test
1.	Registering on the Portal	✗	Email already registered
		✗	Contact No. or Email incorrect format
		✗	Password has less than 8 alphanumeric characters.
		✓	If above test passes then successful registration.
2.	Logging on to the Portal	✗	Username(email-id) not already registered
		✗	Wrong Password
		✓	username already registered and password matches.
3.	Editing Personal Details	✗	email correct format and not already used.
		✗	contact no correct format.
		✓	Successful update if above tests pass.
4.	Create and Editing JAF		same as recruiter
5.	Changing status of students		same as recruiter

2.4 SuperUser

Sr. No	Usecase	type	Test
1.	Logging on to the Portal	✗	Username(email-id) does not exist
		✗	Wrong Password
		✓	username already registered and password matches.
2.	Add Coordinator		same as registration of coordinator
3.	Create Company and allocate to coordinator	✗	company details empty
		✗	coordinator doesnot exist
		✓	Successful update if above tests pass.

3 Load Testing

We are implementing a placement portal. We can have multiple users pinging to the same endpoint at a time. Suppose a JAF is opened for a very short duration we can have multiple users trying to apply for the job. We term this as the load and we expect

our application to have minimum response time. We shall hence measure the response time against the number of concurrent requests as the load test.

3.1   Automation

To automate the process we shall write a program which spawns multiple threads. Each thread shall then navigate to the url of applying to a specific JAF. The response time for the same shall be measured.