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## Project Bank

**Student Project Allocation and Management with Online Testing System  
(SPM)**

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## Students Kit

### Objective

These guidelines are for the student to adopt to make progress in the project.  
The students are required to read through the following

### Requirements Specification (RS)

No.	Requirement	Essential or Desirable	Description of the Requirement	Remarks
RS1	The system should have a login like any website/a signup page for new users	Essential	A successfully signed in message should appear on signing in or after logging out it should show the requisite	A new user (essentially has to be a student) The profile for a professor can be created only by an Administrator, whose profile is hard coded.
RS2	The system should have help screens	Essential	Help about the various features of the system should be provided in sufficient detail in a Q&A format.	The signup policy and the student group criteria should be a part of that policy.
RS3	The data entered by the student like name, percentage, marks, age etc should be validated appropriately.	Essential	This feature will improve the robustness of the application, also this feature is a must as it prevents the incorrect data being entered in the database.	
RS4	The system should have the facility to select questions for the test and set the time limit for the test	Essential	This feature will help in deciding the questions and the time limit to be set for the test.	The questions and the time limit can be set by the admin only.
RS5	The student should be allowed to give the online test only once.	Essential	Different time limits for different types of tests can be set here.	This feature will prevent the student from giving

				the test more than once.
RS6	The professors should be able to shortlist students	Essential	The students who have already been selected by the other professors should not be available for short listing.	
RS7	Facility for password changing	Essential	There should be facility for changing the password for the student as well as the professor.	
RS8	Mail sent to students	Essential	An auto-generated email should be sent to students intimating them that a professor has allocated them a project.	This email should be responded by the students in a weeks time as then only can a professor communicate with their group
RS9				

### Database Fields Specification

Groupcode is the Key of the database. The range of valid values entered below as examples need not be taken as such. They can be modified by the team.

No.	Field Name	Range of valid values for the field	Remarks
1	Groupcode	Some auto-generated unique number	This is the key field of the database as it is unique for each an every student group. The groupcode i.e. unique code for a group along with the student name forms the composite primary key.
2	Name	Up to 15 characters in length.	Special characters like underscore are not allowed.
3	Age	This should be less than 25 for any team member	
4	Email Id	Up to 25 characters in length (including the domain name)	This field should also be unique for a person because no two people can have the same email

			id
5	Percentage	Should be less than 100	A check to incorporate the same should be present.
6	Professor's name	Up to 15 characters in length.	
7	Professor's email	Up to 25 characters in length (including the domain name)	This field should also be unique for a person because no two people can have the same email id. This forms the primary key for the professor
8	Admin user and password	These should be hard coded in the database	As the administrator assigns the professors an account initially. He must have direct access to the database.
9			

### High Level/Detailed Design (HLD/DD)

#### INPUT SCREENS

- 1) THE LOGIN PAGE:  
The login page should have fields such as Login ID and Password.
- 2) THE REGISTRATION FORM:  
The Registration form should have fields such as Login id, Password, Confirm Password, Name, Age, Group mail-id etc. for each group of students appearing for the test.  
The form will have the professor's name, emailid etc. for registering the professors.
- 3) THE TEST START MODULE:  
This module should provide the rules and regulations to appear for test.
- 4) THE STUDENT SHORTLISTING MODULE:  
This module should have fields like the student name, the group code, professor's name and the project code.
- 5) ABOUT THE DEVELOPERS:
- 6) CONTACT THE DEVELOPERS:

#### THE ADMINISTRATION MODULE:

- 1) THE QUESTION ANSWER FORM:  
This form should have fields such as Question id, Question, options etc..
- 2) THE ADMIN USER MASTER:

This module should have fields as User id, User Login name, User Password, User name, User email-id etc., all information related to admin..

3) THE UTILITIES MODULE:

This module should provide options to enable the user to navigate to the Home page, About us, logout and exit.

**OUTPUT SCREENS::**

1) THE VIEW PROFILE MODULE:

This module should provide a view of the registered user. The login id, user name id, Name, e-mail id, Percentage, Groupid etc.

2) THE EDIT PROFILE MODULE:

The Edit profile module should have fields such as Login id, Password, Confirm Password, User name. One can make changes to the data entered.

3) THE EDIT PASSWORD MODULE:

The user can change its password through this module.

4) THE TESTING MODULE:

This module should display the time required to take the test, current time, time left for the test to get over, duration of exam.

**Test-Plan (TP)**

The test-plan is basically a list of testcases that need to be run on the system. Some of the testcases can be run independently for some components (report generation from the database, for example, can be tested independently) and some of the testcases require the whole system to be ready for their execution. It is better to test each component as and when it is ready before integrating the components.

It is important to note that the testcases cover all the aspects of the system (i.e., all the requirements stated in the RS document).

No.	Testcase Title	Description	Expected Outcome	The requirement in RS that is being tested	Result
1	Successful User Verification	The login to the system should be tried with the login assigned by the admin and the correct password	Login should be successful and the user should enter in to the system	RS1	Passed

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2	Unsuccessful User Verification due to wrong password	Login to the system with a wrong password	Login should fail with an error 'Invalid Password'	RS1	Passed
3	Unsuccessful User Verification due to invalid login id	Login to the system with a invalid login id	Login should fail with an error 'Invalid user id'	RS1	Passed
4	Taking Test the first time	A user having given the test one time	After the test is over, the link to the test page is disabled	RS5	Passed
5	Allocation of a project to the students	The professor allocates a project to a group of students	After allocation, no other professor can allocate a project to the same group	RS6	Passed
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