Software Requirements Gathering and Specification

Lab Task

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Scenario:

Air University Multan Campus is looking to develop an online admission system for prospective students. This will give students the ease of applying for admission from the comfort of their homes at the start of each academic year. The admission department will also be able to view submitted applications and decide the outcome of each. There is a need that this system be analyzed in detail and special attention be paid to each of the functional aspects so as to ensure smooth and error free working, which can only be properly achieved through detailed requirements specification and documentation.

Business Requirements

All user requirements are as follow:

- Need of online application facility
- To ease applicants to apply for admission
- Applicants will be able to apply for admission without even coming at campus
- System will keep all record of applicants by avoiding stacks of papers
- It will help university's clerical team to maintain data by separating of each program
- Applicants can ask queries via email
- To assist applicants who are far away from city can also submit their application
- No need to sharing the bundles of pages of new applicants in university because data of new applicants will be viewed at one place

User Requirements

All user requirements are as follow:

- Allow sign up to new users
- Allow login to existed users
- User can add all profile details
- Home page for checking all details of program offered
- View admission form to apply
- Allow applicant to enter all details
- Send confirmation via emails
- A printable challan form appeared in mail box for the payment of admission processing fee
- Applicants can login again to see the status of application
- User can ask any query related to admission application
- Clerical team of university can view list of all applicant
- A advisor can answer the queries of all applicants by replying the email
- Filter the list on the basis of merit, complete documents and applicants who have submitted the admission processing fee
- View or manage final and filtered list
- Update application status or send an email to applicants to inform about selection or rejection

Functional Requirements

According to lab task, I need to write functional Requirements for registration in admission system of Air University Multan Campus.

Details of all functional requirements are as follow:

S.No	Functional Requirements ID	Title of Functional Requirements
1	FR01	Sign up Requirements
2	FR02	Log in Requirements
3	FR03	Registration for admission Requirements

1-Sign up Requirements:

All requirements for sign up are as follow:

Functional Requirement 01	Requirements Text
FR01-01	System shall allow user to sign up.
FR01-02	System shall get username from user.
FR01-03	System shall get email from user.
FR01-04	System shall get password from user.
FR01-05	System shall again get the password from user to confirm.
FR01-06	System shall get the gender from user by checking the checkbox.
FR01-07	System shall get date of birth from user.
FR01-08	System shall allow user to agree on terms and condition by clicking checkbox.
FR01-09	System shall validate all inputs.
FR01-10	System shall allow user to click on sign up button.
FR01-11	System shall send a computer generated email to confirm sign up.

2-Sign up Requirements:

All requirements for log in are as follow:

Functional Requirement 02	Requirements Text
FR02-01	System shall allow user to log in.
FR02-02	System shall get username from user.
FR02-03	System shall get email from user.
FR02-04	System shall get password from user.
FR02-05	System shall authenticate user when he / she submits username and password on login button.
FR02-06	System shall allow user to Reset his username and password when he / she clicks on the Reset button.
FR02-07	System shall allow user to remember his username and password by entering into the checkbox.
FR02-08	System shall allow to recover forgot password by sending email.
FR02-09	System shall validate all inputs.
FR02-10	System allow user to click log in button.

3-Registration for Admission Requirements:

All requirements for being registered for admission are as follow:

Functional Requirement 01	Requirements Text
FR03-01	System shall allow user to register for admission.
FR03-02	System shall check whether user is already logged in or not.
FR03-03	System shall get first from user.
FR03-04	System shall get second name from user.
FR03-05	System shall get username from user.
FR03-06	System shall get father's name from user.

FR03-07	System shall get CNIC from user.
FR03-08	System shall get address from user.
FR03-09	System shall city and country from user.
FR03-10	System shall get whether user has any disability.
FR03-11	System shall get gender from user by checking checkbox.
FR03-12	System shall get date of birth from user.
FR03-13	System shall get the whether user is national of other country.
FR03-14	System shall get program type from user by clicking check box.
FR03-15	System shall get all academic data from user by entering detail in table.
FR03-16	System shall validate all inputs.
FR03-17	System shall allow user to click on Register button.
FR03-18	System shall send a computer generated email to confirm Registration.