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Tamilnadu, India.*

**Amrita Vishwa Vidyapeetham**

**Amrita School of Engineering, Coimbatore**

**Department of Computer Science and Engineering**

**2021 -2022 Even Semester**

**19CSE314 Software Engineering**

**AUTOMATING PhD ADMISSION PROCESS**

**GROUP NO: 02**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Reg.No** | **Name of the Student** | **Role** |
| 1 | CB.EN.U4CSE19321 | Madhuri | Business Analyst |
| 2 | CB.EN.U4CSE19323 | Phani Teja | Testing |
| 3 | CB.EN.U4CSE19325 | Ilamparithi C R | Developer  Testing |
| 4 | CB.EN.U4CSE19343 | Pavan Teja | Developer |
| 5 | CB.EN.U4CSE19345 | Ashwin R | Project Leader  Developer |

**ABOUT**

This web based application allows educational institutions to seamlessly walkthrough the entire

Creating a application which allows one to automate and manage the process of PhD application process. The user(admin) will be able to set various parameters, modules and categories to filter out the applicants and analyze from the results obtained from the tests based on custom set parameters. From the applicant side, they will be able to browse for various categories and apply for interested categories with all the necessary documents and to view the stage in which the application is in.

**STAKE HOLDERS**

* Educational Institutions
* Applicants

**MODULES**

* User set up application categories
* Input from applicant
* Analyzing applicant details
* Exam /Interview process
* Result declaration

**TABLE**

1. Applicants (**Master table** consisting of all the information of all applicant)
   1. Applicant ID
   2. Personal details
   3. Resume link
   4. Progress (Assessment/Interview/Admission)
   5. Course ID
2. Course Details (**Master table**)
3. Login(stores login credentials)
4. Applicant ID
5. Username
6. Password
7. Assessment (Filtering the candidates based on exam result)

(User can add/edit components)

1. Applicant ID
2. Separate Component marks
3. Average
4. Interview (Filtering the candidates based on the interview result) (User can add/edit components)
5. Applicant ID
6. Remarks
7. Grade
8. Admission (Qualified applicants)
9. Applicant ID
10. Status

**REQUIREMENTS**

a. Applicant (user)

* Apply to the required PhD if available
* Fill in the application to generate a applicantID
* Able to see status of where they are in the admission process
* Loign using Applicant ID to see the status

b. University - the admin who is going to use this software.

* Choose the available PhDs to open the application process.
* Update the status of the applicants in the admission process
* Able to set the no. of and type of the components upon which the applicant will be evaluated

**ASSUMPTIONS**

* Applicants who meet certain criteria will only be eligible to apply for the required PhD
* Web Interface

**REPORTS**

* Software requirement
* Testing report
* Weekly report
* User feedback

**Epic and User Stories :**

* 1. **Registration & Login**
     1. As a new user I want to create a account.

1. Registration page UI
2. Text fields for user details
3. Privacy agreement check box
4. Submit button and cancel button
5. Adding data to the database
6. Code for the database using sql
   * 1. ﻿As a existing user I want to be able to login using a user name and pass to my account
        1. Page UI
        2. Text field for credentials
        3. Login button
        4. Retrieve data from database
        5. Code for the database using sql
        6. Redirect to the new page
     2. As a user I want to be able to use Google for account creation
        1. Button to login with google
        2. Redirect to the new page
        3. Text fields to enter google credentials
        4. Verify the gmail
        5. Update the database
        6. Code for the database using sql
     3. As a user I want to be able to reset the forgotten password
        1. Include a link under login saying forgot password?
        2. Saperate page
        3. Include text field for entering email and submit button
        4. Send a verification to email entered to verify
        5. Provide a field to enter code sent in email
        6. Fields to enter new password
        7. Confirm button and redirect to login page
        8. Update the database
     4. As a user I want to be able to browse through the website before creating an account
        1. Page UI
        2. Login and signup buttons
        3. Contact us and about info
        4. College logo and socials
        5. Create a button for Admission
        6. Description about college
        7. News and articles about college
        8. Add few related links
     5. As a admin I need to login
        1. Page UI
        2. Text field for credentials
        3. Login button
        4. Retrieve data from database
        5. Code for the database using sql
        6. Redirect to the new page
   1. **User Course Selection**
      1. **As a user I want to explore all the courses**
      2. **As a user I should know about the deadline/qualifications for the course**
      3. **As a user I should be able to view the description of the offered courses.(Academic)**
      4. **As a user I want to be able to apply to the course for which I am eligible**
      5. **As a user I should be able to cancel my application**
      6. **As a user I want to be able to search for a particular course**
   2. **User Homepage Activities**
      1. **As a user I want to be able to see my progress in the application.**
      2. **As a user I need to view the details about the assessment﻿**
      3. **As a user I need to input/update my personal details (education/skills/etc).**
      4. **As a user, complete my admission if I pass through the both the assesments**
      5. **As a user I should be able to avail technical support**
   3. **Admin Course Publish**
      1. **As a admin user, I should be able to publish course**
         1. **Retrieve and display the available courses from the database**
         2. **Select the course from the created ones**
         3. **Set a time at which the courses should be published**
         4. **Set under what categories the course should be published**
         5. **Notify the users about the new releases.**
      2. **As a admin I should be able to update the published courses** 
         1. **Select the course from the published list**
         2. **Edit the required fields and update at the database**
         3. **Highlights the updates and show the changes**
         4. **Revoke a published course**
         5. **Notify the applicants about the updates**
      3. **Create course and add description for each course**
         1. **Button for creating new course**
         2. **Button for new categories**
            1. **Create new**
            2. **Select from existing**
         3. **Create custom course tags and UI to add them**
         4. **Add syllabus, outcomes, duration, research areas and facilities available in separate fields**
         5. **Store the details to the database**
      4. **Set qualification criteria for courses(UG, PG CGPA)**
         1. **Get the details from the users information**
         2. **Compare it with the criteria set**
         3. **Update/set the eligibility field**
         4. **Custom restrictions**
         5. **Particular restrictions for separate courses.**
      5. **Send email to users stating the release of the PhD application process.**
         1. **Get contact from database**
         2. **Custom filter options to select receivers**
         3. **Create a function which sends mails at given time.**
         4. **Edit/Create content for the messages.**
         5. **Save custom templates.**
      6. As a admin I should be able to post new announcement
         1. Make a frame in user homepage
         2. **Set priority of announcement**
         3. **Set category of announcement**
         4. **Custom select receivers**
         5. **Expiration time for announcements**
   4. **Admin User Activities**
      1. Filter and view applicants based on various criteria
         1. Page UI
         2. Search buttons and submit buttons and bars
         3. Searching algorithm based on key word matching
         4. Display results
         5. Retrieve data from database
         6. Categories for searching
         7. Default Display card view
         8. Assign the card view to each applicant
         9. A short description about the applicant inside the card
      2. As an admin I should be able to view queries posted by the applicants
         1. Page UI
         2. Separate FAQ page
         3. Default query template
         4. Retrieve data from database
         5. Code for the database using sql
         6. Use the default query template
         7. Create a view with all the questions inside the query template
      3. Generate reports on applicant statistics
         1. Default page UI
         2. Category checkbox
         3. Submit button
         4. On clicking the submit button based no the input retrieve data from database
         5. code for retrieving the appropriate data
         6. Display the by the total no
         7. Display by the no of ppl applied for that course
         8. Based on the campus
      4. As an admin I should be able to reply/edit/remove queries posted by the applicants
         1. Same page as the user story 2
         2. A reply button inside the query template
         3. Reply to a certain query
         4. command to update this is the database
         5. A modify query button
         6. command to update this in the database
      5. As an admin I should be able to add selected users to the blacklist
         1. Check the activity of selected user
         2. A blacklist button
         3. Add the specific user to blacklist
         4. Code to update the blacklisted applicant
         5. Remove button
         6. Code to Update the blacklist status
      6. As an admin I want to able to see all the information about a selected applicant
         1. Default template for the projection of an applicant
         2. Section for the applicants description
         3. Section for applicants qualification
         4. Section for the uploaded files
         5. Section for rest of the details
         6. Code to retrieve the said data
   5. **Assessment Process**
      1. **As a admin I should be able to set the assessment components**
      2. **Notification for test/interview through mail**
      3. **As an admin I should be able to set passing parameters for assessment.**
         1. **Set weightage of each component as per the courses**

**(How much of an impact it has on the course)**

* + - 1. **Retrieve the results of the applicants from the assessment**
      2. **Based on the results set custom rules to filter the applicants(min of x% in component A)**
      3. **Set an overall base marks for the clearance criteria**
      4. **Store the calculated components into the database**
    1. **As an admin I should be able publish appropriate results to the candidates.**
    2. **As a admin I Should be able to set the percentile of applicants who qualify to the interview round**
       1. **A page for viewing the top candidates and their marks**
       2. **Selecting set of students who are qualified for the interview round**
       3. **A text filed to enter the percentile of student to qualify for the next round**
       4. **Apply button to update the selected candidates information**
       5. **Selection availability for the student who are not in the top percentile**
       6. **Update the said students information**