TOPIC NAME : PLACEMENT ASSITANCE

MICRO LIFE CYCLE

1. System Definition: The proposed system will be used by users(normally students) to practice for campus placements by giving apptitude mock tests,technical test. This system also provides with interview questions both at technical and HR level.

2. Database Design :We have used CENTRALIZED APPROACH for our database system. Centralized approach also has disadvantages like if database fails entire system fails, with increasing multiple concurrent users workload on database increases and it crashes . if we have good IT resources availabel distributed /decentralized approach is favoured.

3. Database Implementation: We will be using MySQL to implement the database. Mock test question and answers along with user details will be in the database.

4. Loading / Data Conversions: Database will be populated by the data inputted by the user from the website system . Along with user data details, the databse will be already populated with question and answers which are used for generating mock test for user.

5. Application Conversions: We are planning to st up the system on a website initially where user can log in using their personal account. Later we would implement it as an Android Application as well as IOS application which wiil also act like a notification application , if admin adds new mock test and new questions and answer user who have registered with the system will get notified. It will also tell the users progress report which will help to increse their performance.

6. Testing and Validation: The acceptability of the system in meeting the users’ requirements are met by validating the system performance while system testing. As most of the site would be static and only mock test would be dynamic , the mock tests would be under testing and validation to check if the system is correct in showing accurate users results. Customer feedback will be given utmost importance in Validation and Acceptance testing.

7. Operation: as the system will be set as an website most of the users will appear for the mock test on website itself. The results will also get displayed on wesite.

8. Monitoring and Maintenance: The application will be tested for some time and will be updated as per the new requirements at each and every stage. new sets of companies , job profiles and questions set can be added in due course of time. Database tuning is possible because of the inputs taken from the customers. Monitoring of system performance and system maintenance are important activities during the operational phase.

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| ENTITY NAME | FUNCTIONALITY | attributes | CONSTRAINTS |
| Admin | Adding courses,content data | Id,password,username | Id primary key |
| courses | Suggest companies related to it | Id,name(cs,it,etrx) | Id primary key |
| companies | Will have data of apptitude questions ,HR interview question etc | Id,Name,job profiles,salary,candidate requirements,course id | id primary key  Course id foreign key |
| data |  | App test,interview questions,group discussion topics(tips and tricks),course id,company id | Company id primary key  Course id foreign key |
| user | User will acess data , give mock tests | Name ,username,password,  Id,college name,academic details | Couse id foreign key  Id primary key |
| Progress report | Will have results of mock test given by user | Marks, tips for improvement |  |
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