GROUP MEMBERS:

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FRAMEWORK: Web-based Application in Node.JS

ABOUT: EduGuide is a web-based portal for student resource management. It enables students of different universities to upload, view and download past papers, quizzes and, assignments of different subjects of their respective universities.

TAGLINE: Find the latest educational resources for all Pakistani universities! Search and upload quizzes, assignments, and past papers for any university, any department, any course in Pakistan.

FUNCTIONALITIES:

- User can sign up /login
- User can view his profile
- User can edit his profile
- User can search for past papers for course of a particular university
- User can search for assignments for course of a particular university
- User can search for quizzes for course of a particular university
- User can upload a past paper/ quiz / assignment
- User can view his uploaded documents
- User can download the document in either his phone or account
- User is assigned a rank
- User's money increases on the number of contributions

PROBLEM STATEMENT:

Many students are unaware of the questioning pattern of the course they are enrolled in. They are not aware of the kind of questions that they are going to be asked nor do they have familiarity with the pattern of the questions. As a result, they either focus too much on less important stuff or neglect completely important topics which instructors usually ask in papers, quizzes and assignments. Ultimately, they find it very difficult to take their exam, lose confidence and don't score well.

Our portal directly addresses this issue. With our portal, resource management becomes easier. A student can not only benefit from the portal but can also become a contributor at the same time. The

| EduGuide |
|---|
| student only has to get himself to register on our site and after registration, he may be able to search his desired past paper, quiz, assignment with just one click. Everything is arranged in an organized manner. Moreover, a student may upload resources as well. |
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Request / Responses of APIs

| No. | Screen | Method | Request | Response |
|-----|----------------|---|--|---|
| 1 | Landing Screen | GET (display screen) POST (login button) | { "username": "username", "password": "password" } | SUCCESS: { "status-code": 200, "message": "Login Page Retrieved!" }, { "status-code": 201, "message": "Session Created!", "username": "mehar", "_id": "001" } FAILURE: { "status-code": 404, "message": "Requested resource does not exist!" }, { "status-code": 603, "message": "Incorrect password!" } |
| 2 | Sign Up Screen | GET (display screen) POST (sign up) | { "picture": "picture", "username": "username", "password": "password", "emailID": "email", "university": "universityName", "rollNumber": "rollNumber", "age": "age" } | SUCCESS: { "status-code": 200, "message": "SignUp Page Retrieved!" }, { "status-code": 200, "message": "Sign Up Successful!", "_id": "001" "username": "mehar fatima", "email": "meharfatimak@gmail.com", "university": "FAST NUCES", "rollNumber": "16L4388", "age": "21" } FAILURE: { "status-code": 610, "message": "User exists!" }, { "status-code": 630, "message": "Passwords do not match!" |

```
"status-code": 611,
                                                                         "message": "Fields are required!"
                                                                         SUCCESS:
3
     Home Screen
                        GET
                                  " id": "001"
                                                                         "status-code": 200,
                                                                          "message": "Home Screen Retrieved!",
                                                                          "Universities": {"name": "FAST", "location":
                                                                         "Lahore", "path": "whatever.png"}
                                                                         }
                                                                         FAILURE:
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
4
      Department
                        GET
                                                                         SUCCESS:
                                  " id": "001",
        Screen
                                  "universityID": "uld",
                                                                          "status-code": 200,
                                                                          "message": "Department Screen Retrieved!",
                                                                          "Universities": {"name": "FAST", "location":
                                                                         "Lahore", "path": "whatever.png"},
                                                                          "Departments": {"name": "CS", "code": "01",
                                                                          "path": "whatever.png"}
                                                                         FAILURE:
                                                                         "status-code": 404,
                                                                         "message": "Requested resource does not
                                                                         exist!"
                                                                         },
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
      All Subjects
                                                                         SUCCESS:
5
                        GET
                                  " id": "001",
        Screen
                                  "universityID": "uid",
                                                                          "status-code": 200,
                                  "departmentID": "Did",
                                                                          "message": "Subject Screen Retrieved!",
                                  }
                                                                          "Universities": {"name": "FAST", "location":
                                                                          "Lahore", "path": "whatever.png"},
                                                                          "Departments": {"name": "CS", "code": "01",
                                                                          "path": "whatever.png"},
```

```
"Courses": {"name": "SMD", "code": "421",
                                                                         "path": "whatever.png"}, {{"name": "Web",
                                                                         "code": "423", "path": "whatever.png"}
                                                                         FAILURE:
                                                                         "status-code": 404,
                                                                         "message": "Requested resource does not
                                                                         exist!"
                                                                         },
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
                                                                         SUCCESS:
6
     Course Screen
                        GET
                                  " id": "001",
                                  "universityID": "uID",
                                                                         "status-code": 200,
                                  "departmentID": "Did",
                                                                         "message": "Course Screen Retrieved!",
                                  "courseID": "cID",
                                                                         "courses": {"name": "SMD", "code": "421",
                                                                         "path": "whatever.png", "documents:
                                  }
                                                                         [DOCUMENT]"},
                                                                         "Universities": {"name": "FAST", "location":
                                                                         "Lahore", "path": "whatever.png"},
                                                                         "Departments": {"name": "CS", "code": "01",
                                                                         "path": "whatever.png"}
                                                                         FAILURE:
                                                                         "status-code": 404,
                                                                         "message": "Requested resources does not
                                                                         exist!"
                                                                         },
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
7
                        GET
                                                                         SUCCESS:
      Assignment
        Screen
                                  " id": "001",
                                   "universityID": "uid",
                                                                         "status-code": 200,
                                  "departmentID": "Did",
                                                                         "message": "Assignment Screen Retrieved!",
                                                                         "courses": {"name": "SMD", "code": "421",
                                  "courseID": "cID"}
                                                                         "path": "whatever.png},
                                                                         "Universities": {"name": "FAST", "location":
                                                                         "Lahore", "path": "whatever.png"},
                                                                         "Departments": {"name": "CS", "code": "01",
                                                                         "path": "whatever.png"},
```

```
"Assignment": {"name": "TicTacToe", "path":
                                                                          "wherever.pdf"}
                                                                          }
                                                                          FAILURE:
                                                                          "status-code": 404,
                                                                          "message": "Requested resources does not
                                                                          exist!"
                                                                          },
                                                                          "status-code": 403,
                                                                          "message": "Forbidden!"
                                                                          SUCCESS:
8
      Past Papers
                         GET
                                  " id": "001",
        Screen
                                  "universityID": "uid",
                                                                          "status-code": 200,
                                  "departmentID": "Did",
                                                                          "message": "Past Papers Screen Retrieved!",
                                                                          "courses": {"name": "SMD", "code": "421",
                                  "courseID": "cID"}
                                                                          "path": "whatever.png},
                                                                          "Universities": {"name": "FAST", "location":
                                                                          "Lahore", "path": "whatever.png"},
                                                                          "Departments": {"name": "CS", "code": "01",
                                                                          "path": "whatever.png"},
                                                                          "PastPapers": {"name": "Mid1", "path":
                                                                          "wherever.pdf"}
                                                                          }
                                                                          FAILURE:
                                                                          "status-code": 404,
                                                                          "message": "Requested resources does not
                                                                          exist!"
                                                                          },
                                                                          "status-code": 403,
                                                                          "message": "Forbidden!"
9
    Quizzes Screen
                         GET
                                                                          SUCCESS:
                                  " id": "001".
                                   "universityID": "uid",
                                                                          "status-code": 200,
                                  "departmentID": "Did",
                                                                          "message": "Quizzes Screen Retrieved!",
                                                                          "courses": {"name": "SMD", "code": "421",
                                  "courseID": "cID"}
                                                                          "path": "whatever.png},
                                                                          "Universities": {"name": "FAST", "location":
                                                                          "Lahore", "path": "whatever.png"},
                                                                          "Departments": {"name": "CS", "code": "01",
```

```
"path": "whatever.png"},
                                                                         "Quizzes": {"name": "Quiz2", "path":
                                                                         "wherever.pdf"}
                                                                         FAILURE:
                                                                         "status-code": 404,
                                                                         "message": "Requested resources does not
                                                                         exist!"
                                                                         },
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
10
                         GET
                                                                         SUCCESS:
         Upload
                                  " id": "001",
       Document
                       (display
                       screen)
                                   "university": "university_name",
                                                                         "status-code": 200,
                                  "department": "department name",
                                                                         "message": "Page Retrieved!"
                                  "course": "course
                        POST
                                                                         },
                                  "CourseCode": "code",
                       (upload)
                                                                         {
                                                                         "status-code": 201,
                                  "type":
                                  "quiz/pastPaper/assignments",
                                                                         "message": "Uploaded!",
                                  "picture": "picture"
                                                                         "documentID": "003321",
                                                                         "university": "LUMS",
                                  }
                                                                         "department": "CS",
                                                                         "course": "TBW",
                                                                         "CourseCode": "SS453"
                                                                         "picture": "what.png",
                                                                         "type:" "quiz"
                                                                         FAILURE:
                                                                         "status-code": 404,
                                                                         "message": "Requested resource does not
                                                                         exist!"
                                                                         },
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
                                                                         "status-code": 611,
                                                                         "message": "Fields are required!"
                                                                         },
                                                                         "status-code": 614,
                                                                         "message": "University/Department/Course
```

```
invalid!"
                                                                        }
       Uploaded
                                                                        SUCCESS:
11
                        GET
       Documents
                                  " id": "001"
                                 "documentID": "docID"
                                                                        "status-code": 200,
         Screen
                                                                        "message": "Uploaded Documents Screen
                                                                        Retrieved!",
                                                                        "DOCUMENTS": "[{"Assignment":{"name":
                                                                        "TicTacToe", "path": "wherever.pdf"}},
                                                                        {"Quiz":{"name": "Quiz2", "path":
                                                                        "wherever.pdf"}}, {"PastPaper":{"name":
                                                                        "mid2", "path": "wherever.pdf"}}]
                                                                        FAILURE:
                                                                        "status-code": 404,
                                                                        "message": "Requested resources does not
                                                                        exist!"
                                                                        },
                                                                        "status-code": 403,
                                                                        "message": "Forbidden!"
                        GET
                                                                        SUCCESS:
12
         Saved
                                  " id": "001",
       Documents
                                 "documentID": "docID"
                                                                        "status-code": 200,
                                 }
                                                                        "message": "Saved Documents Screen
                                                                        Retrieved!",
                                                                        "DOCUMENTS": "[{"Assignment":{"name":
                                                                        "TicTacToe", "path": "wherever.pdf"}},
                                                                        {"Quiz":{"name": "Quiz2", "path":
                                                                        "wherever.pdf"}}, {"PastPaper":{"name":
                                                                        "mid2", "path": "wherever.pdf"}}]
                                                                        FAILURE:
                                                                        "status-code": 404,
                                                                        "message": "Requested resources does not
                                                                        exist!"
                                                                        },
                                                                        "status-code": 403,
                                                                        "message": "Forbidden!"
      User Profile
                        GET
                                                                        SUCCESS:
13
                                 " id": "001"
```

```
"picture": "picture",
                                                                          "status-code": 200,
                                  "username": "username",
                                                                          "message": "Screen Retrieved!",
                                   "password": "password",
                                                                          "User": {"username": "Mehar", "password":
                                                                          "12344", "emailID":
                                   "emailID": "email",
                                   "university": "universityName",
                                                                          "meharfatimak@gmail.com", "university":
                                   "roll Number": "rollNumber",
                                                                          "FAST", "RollNumber": "16L4388",
                                   "age": "age"}
                                                                          "age":"21"}
                                                                          }
                                                                          FAILURE:
                                                                          "status-code": 404,
                                                                          "message": "Requested resources does not
                                                                          exist!"
                                                                          },
                                                                          "status-code": 403,
                                                                          "message": "Forbidden!"
14
       Edit Profile
                         GET
                                                                          SUCCESS:
                                   " id": "001"
                       (display
                       screen)
                                   "picture": "picture",
                                                                          "status-code": 200,
                                   "username": "username",
                                                                          "message": "Edit Screen Retrieved!"
                       PUT (edit
                                   "password": "password",
                       profile)
                                   "emailID": "email",
                                   "university": "universityName",
                                                                          "status-code": 201,
                                   "roll Number": "rollNumber",
                                                                          "message": "User Account Updated!"
                                   "age": "age"
                                                                          FAILURE:
                                  }
                                                                          "status-code": 404,
                                                                          "message": "Requested resources does not
                                                                          exist!"
                                                                          },
                                                                          "status-code": 403,
                                                                          "message": "Forbidden!"
                                                                          "status-code": 630,
                                                                          "message": "Passwords do not match!"
                                                                          },
                                                                          "status-code": 611,
                                                                          "message": "Fields are required!"
15
        Change
                         GET
                                                                          SUCCESS:
                                   " id": "001",
       Password
                       (display
```

```
"old_password": "password",
                                                                         "status-code": 200,
         Screen
                       screen)
                                  "new_password": "password"
                                                                         "message": "Change Password Screen
                        PATCH
                                                                         Retrieved!"
                       (update
                                                                         },
                      password)
                                                                         "status-code": 201,
                                                                         "message": "Password Updated!"
                                                                         FAILURE:
                                                                         "status-code": 404,
                                                                         "message": "Requested resources does not
                                                                         },
                                                                         "status-code": 403,
                                                                         "message": "Forbidden!"
                                                                         "status-code": 630,
                                                                         "message": "Passwords do not match!"
                                                                         },
                                                                         "status-code": 611,
                                                                         "message": "Fields are required!"
                                                                         "status-code": 603,
                                                                         "message": "Incorrect Password!"
                                                                         }
                                                                         SUCCESS:
16
     Search Queries
                         GET
                                  For Home Screen:
                                                                         Amalgamation of Home / Department /
                                  " id": "001",
                                                                         Subject Screen Response
                                  "universityID": "uid"
                                                                         "status-code": 201,
                                  For Department Screen:
                                                                         "message": "Successfully Searched!",
                                                                         "Universities": {"name": "FAST", "location":
                                  " id": "001",
                                                                         "Lahore", "path": "whatever.png"}
                                  "universityid": "uid",
                                                                         "Departments": {"name": "CS", "code": "01",
                                  "departmentid": "Did"
                                                                         "path": "whatever.png"},
                                                                         "Courses": {"name": "SMD", "code": "421",
                                                                         "path": "whatever.png"}, {{"name": "Web",
                                  For Subject Screen:
                                                                         "code": "423", "path": "whatever.png"}
                                  " id": "001",
                                  "universityID": "uid",
                                                                         Amalgamation of PastPaper / Quiz /
                                  "departmentid": "Did",
                                                                         Assignment Screen Response
                                  "courseid": "Cid"
                                                                         "status-code": 201,
```

```
"message": "Successfully Searched!",
                                   For Assignments Screen:
                                                                            "PastPapers": {"name": "Mid1", "path":
                                   " id": "001",
                                                                            "wherever.pdf"},
                                                                            "Quizzes": {"name": "Quiz1", "path":
                                   "universityid": "uid",
                                   "departmentid": "Did",
                                                                            "wherever.pdf"},
                                   "courseid": "Cid",
                                                                            "Assignments": {"name": "Assign1", "path":
                                   "assignmentid": "assID"
                                                                            "wherever.pdf"}
                                   For Quizzes Screen:
                                                                            FAILURE:
                                   " id": "001",
                                   "universityid": "uid",
                                                                            "status-code": 404,
                                   "departmentid": "Did",
                                                                            "message": "Requested resource does not
                                   "courseid": "Cid",
                                                                           exist!"
                                   "quizid": "qid"
                                                                           },
                                   For Past Papers Screen:
                                                                            "status-code": 403,
                                                                            "message": "Forbidden!"
                                   " id": "001",
                                   "universityid": "uid",
                                   "departmentid": "Did",
                                   "courseid": "Cid",
                                   "pastPaperid": "pprID"
     File Download
                          GET
                                   For Assignment Screen:
                                                                           SUCCESS:
17
                                   " id": "001",
                                                                            "status-code": 200,
                                   "universityid": "uid",
                                                                            "message": "Retrieved!"
                                   "departmentid": "Did",
                                   "courseid": "Cid",
                                   "assignmentid": "assID"
                                                                            "status-code": 201,
                                                                            "message": "Successfully Downloaded!"
                                   For Quizzes Screen:
                                   " id": "001",
                                                                            FAILURE:
                                   "universityid": "uid",
                                   "departmentid": "Did",
                                                                            "status-code": 404,
                                   "courseid": "Cid",
                                                                            "message": "Requested resource does not
                                                                           exist!"
                                   "quizid": "qid"
                                                                           },
                                   For Past Papers Screen:
                                                                            "status-code": 403,
                                   "_id": "001",
                                                                            "message": "Forbidden!"
                                   "universityid": "uid",
                                   "departmentid": "Did",
                                   "courseid": "Cid",
                                   "pastPaperid": "pprID"
```

```
For Uploaded Documents Screen:

{
    "_id": "001",
    "documentsid": "docid"
}

For Saved Documents Screen:

{
    "_id": "001",
    "documentsid": "docid"
}
```

Database Schema

This is a tentative database design and is subject to change.

USER

```
Username: {type: String, unique: true}
Password: {type: String}
Email: {type: String, unique: true}
Age: {type: Number}
University: {type: String}
Department: {type: String}
Semester: {type: String}
Roll number: {type: String}
Documents: [DOCUMENT]
```

UNIVERSITY

Name: {type: String}
Location: {type: String}
Dept: [DEPARTMENT]

Picture: {type: String}

DEPARTMENT

Code: {type: String, unique: true}

Name: {type: String}

Picture: {type: String}

COURSE

Title: {type: String}

Code: {type: String}

Department: {type: String}

Documents: [DOCUMENT]

Picture: {type: String}

DOCUMENT

Assignments: [ASSIGNMENT]

Quizzes: [QUIZ]

Past Papers: [PASTPAPER]

ASSIGNMENT

Name: {type: String}

Path: {type: String}

QUIZ

Name: {type: String}

Path: {type: String}

PASTPAPER

Name: {type: String}

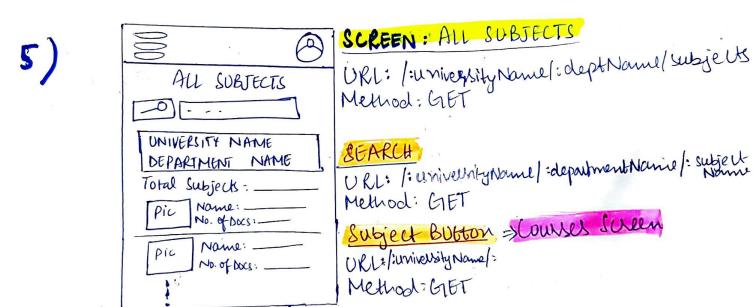
Path: {type: String}

SCREENS

SITE NAME: Eduquide eduquide.com/ > / 1. 19. 2 SCREEN: LANDING PAGE 1040 URL: eduquide.com/ Method: GIET email: Password: LOGIN BUTTON => HOME SCREEN URL: eduquide.com/ Method.PUST LOGIN Sign Up SIGNUP BUTTON SSIGNUP SCREEN URL: /SignUp Method: GIET SIGN UP SCREEN: SIGN UP SCREEN Upload Name: Ulil: eduquide. com/signllp. Picture Method: GIFT Department. SIGN UP BUTTON Method: Post SIGN UP 3) user profile DASH BOARD SCREEN: HOME - SCREEN UNIVERSITIES URL: / home Method: GET PROFILE BUTTON > PROFILE SCREEN (PTU) (UC) LUMS FAST URL: /profile Method: GET UET NOST UNIVERSITY BULLOWS DEPT SCREEN URL: : university Name | clepatinen Method, GIET SEARCH URL: Trunivellity Name Method: GET Screen Other buttons on screen

NEXT SCREEN

| | and a state of the |
|-----------------------|--|
| | SCREEN: Department Suren |
| DEPARTMENTS | URL: /university Name/ departments. |
| | METHOD: GET |
| UNIVERSITY NAME | |
| CS Name: Computer Sci | URL: 1: university Name 1: department Name |
| Et] Name: Electrical | Method: GFT Department Button & SUBJECT SCREEN UKL: /: University Name /: dept Name / subjects |
| | OKC: 1: Ordiversity name 1: orgin |



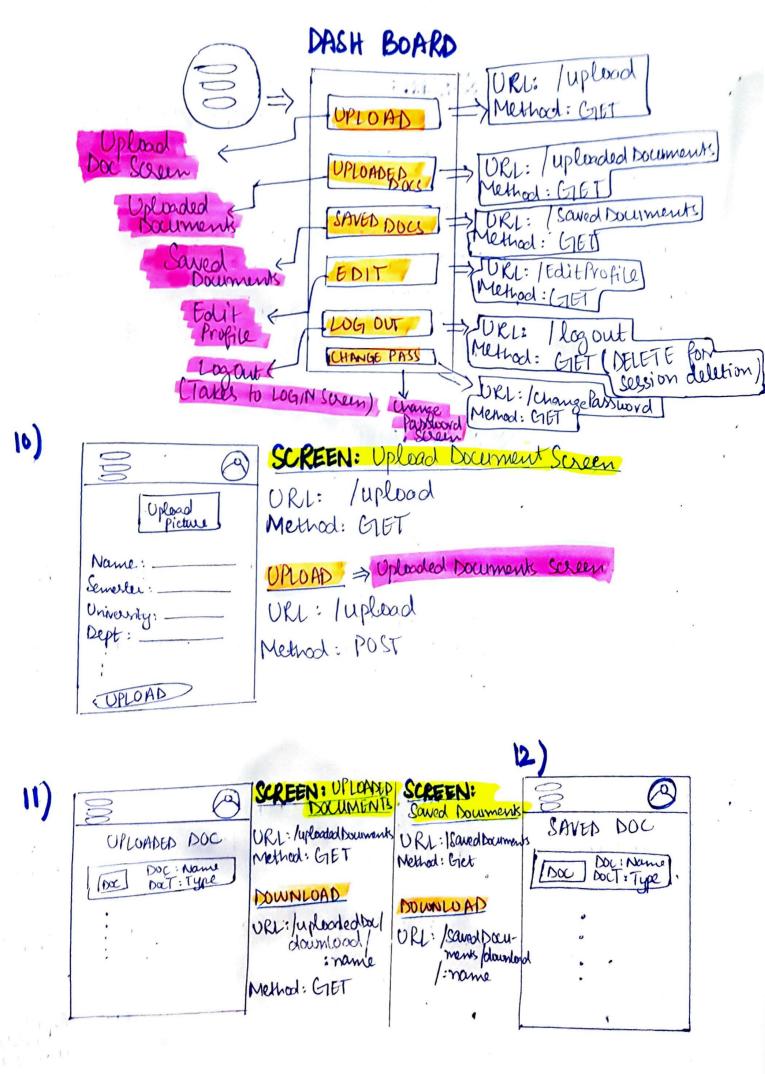
Method: GIFT

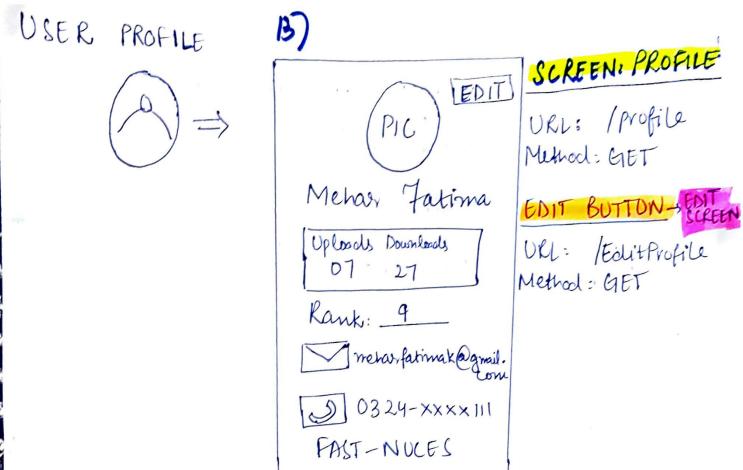


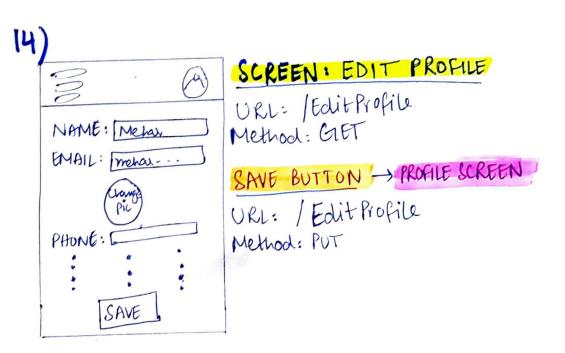
UKL: 1: university Name /: dept Name (subject Name / quiz Method: CIET

pastpapers

| 7) | ALL ASSIGNMENTS No. of BSSIGNMENTS: Nome: DOC uplander: DOC uplander: | SCREEN: ASSIGNMENTS URL: /: universityName /: deptName /: subjectName / assignments SEARCH URL: /: universityName /: deptName /: subjectName /: assignName Method: GET DOWNLOAD URL: /: universityName /: deptName /: subject Name download / : yame Method: GET |
|----|---|--|
| 8) | All QUIZZES No of Quizzes: DOC Oploadel: Quiz #:- | SCREEN: (QUIZZES URL: /: university Name/: dept Name/: subject Name/ quizze Method: GET SEARCH URL: /: university Name/: dept Name/: subject Name/: 94/2me Method: GET DOWNLOAD URL: /: university Name/: dept Name/: subject Name/doonlood URL: /: university Name/: dept Name/: subject Name/doonlood Method: GET |
| 9) | PAST PAPERS: NO. OF Part Papers: DOC Tenure: DOC Tenure: | SCREEN: PAST PAPERS URL: /: university Name/: dept Name /: subject Name/: part paper SEARCH URL: /: university Name/: dept Name /: subject Name/: part paper Method: GTET DOWNLOAD URL: /: university Name/: dept Name /: Subject Name/download Method: GTET /: mance |
| | | |







| 3 |
|-----------------|
| CHANGE PASSWORD |
| OLD: |
| NEW: |
| CONFIRM: |
| , |
| CHANGE |
| |

SCREEN: CHANGE PASSWORD

ORL: /changePassword Method: GET

CHANGE BUTTON

URL: /changePaysword Method: PATCH