**Test Plan**

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* **Introduction:**
  + Test plan objective**:**
* Efforts are made for finding more & more bugs and try to solve them as whole and assuring them to deliver a bug free software.
* As client satisfaction is tool to success, we must build the software by which client satisfies.
* List the recommended test requirements.
* List the deliverable elements of the test activities.
* **Test Strategy:**
  + Unit testing:
    - Test the smallest piece of verifiable software in the application.
  + Automatic testing:
    - Checks the system faster and repeatedly.
  + Integration testing:
    - Individual software modules are combined and tested as a group.
  + System testing:
    - Connected on a complete, integrated system to evaluate the system’s compliance with its specified requirement
  + User Acceptance testing(Beta Testing):
    - UAT(Beta Testing) is carried out in the production environment or the client’s environment. The users here are the actual customers.
* **Pass/Fail Criteria for Testing:**

|  |  |  |  |
| --- | --- | --- | --- |
| Module Name | Applicable Roles | Input | Pass/Fail Criteria |
| Login | Admin  Tutor  Faculty  Student | Enter Credentials | If credentials valid then user logged in  Else  Enter Valid Credentials |
| Forgot Password | Admin  Tutor  Faculty  Student | Enter Email-id | If valid then OTP sent for reset password  Else  Enter valid Email-id |
| Change Password | Owner  Operator | Enter Old Password  Enter New Password  Enter Confirm Password | If old password is valid then check whether new and confirm password matches then change password successful  Else  Enter Valid Details |
| Profile | Owner  Operator | Can Update  Mobile number  Or  Address | If entered data is valid for all the field then item will be updated successfully |
| Online exam | Student |  | If any pending exam is there Student can give exam |
| View Result | Student |  | If student has given any Exams, he can view that exam result in detail. |
| View attendance | Student |  | Student can view his Attendance month wise |
| View fees | Student |  | Can see the unpaid fees amount  And can also see the details of the paid fees. |
| Dashboard | Student |  | Its shows total pending exams, Due fees, overall result, no. of absent days,  View personal-details, exam marks, view Announcements |
| Dashboard | Admin |  | It will show total numbers of students, total number of batches,  Total employee of the institute, Total no of question added, Some chart representation, and recent fees transaction. |
| Batch | Admin | Enter Batch name | If valid batch name is entered it will be added and  Admin can also view the existing batches and search it. |
| Subject | Admin | Enter Subject name | If subject name is entered it will be added and  Admin can also view the existing subject and search it. |
| Student manage | Admin | Enter first name, last name, middle name, parent name,Address, Email-id,password, mobile number, DOB, Batch, Gender, fees | If entered data is valid then student will be added  Else enter valid student details  Can also update Student Information  And delete it. |
| Faculty management | Admin | Enter type of faculty, Email-id, password, Name, phone number, Qualification, DOB, salary | If entered data is valid then faculty will be added  Else enter valid faculty details  Can also update faculty Information  And delete it |
| Questions | Admin | Enter Question,four option, Right answer, Enter Subject, Enter topic, and its difficulty level. | If entered data is valid then Question will be added  Else enter valid Question details  Can Also view existing question  Can also update Question  And delete it |
| Announcement | Admin | Enter Title, Announcement details, Date, batch | If entered data is valid then Announcement will be added  Can Also view Announcement  Can also update Announcement  And delete it |
| Attendance | Admin | Select batch  And then deselect absent student | Attendance will be recorded |
| Topic | Admin | Select Subject  And enter topic name | If entered data is valid then topic will be added  Can Also view topic  Can also update topic |
| To-Do List | Admin | Enter to do list details | To-Do list will be added  Can Also view To-do list  Can also update To-do list  And delete it |
| Online –Exam | Admin | Enter Exam name, selectbatch,select subject, time for exam, and select the question generation type  -Random  Just add number of questions  -custom  Selects topic,  Select number of questions as per difficulty | Exam Will be created  Can also view the created exam |
| Fees | Admin | Enter amount | If entered data is valid then Fees will be deducted from total fees |

* **Environment Needs:**
  + User must have any device which supports access to browser and should match required browser version.
  + User should have internet connection.
* **Testing Criteria**
  + No unsolved bug.
  + 100% pass rate.

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