

BANNARI AMMAN OF INSTITUTION OF TECHNOLOGY

Software Requirement Specification for TAC Portal

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Project Id	31
Project Title	APEX APPROVAL

1.INTRODUCTION:

1.1 PURPOSE:

The purpose of the document is to present a detailed description of the web Application **Apex Approval**. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2 SCOPE OF PROJECT:

The scope of the project is to create a Web Application for Apex Approval. This Application will automate the apex approval process which has been done manually. It has separate dashboards for both faculty and higher management. And the automated Apex Approval will save lots of time and will be easier to manage and store data.

1.3 CONSIDERATION:

- Everyone possesses a google account synced with the Institution.
- Everyone is assigned a Faculty Id or personal identification by institute.

1.4 TECH STACK:

COMPONENT	MERN STACK
Front End	▪ React (JS Library for building user interfaces)
Back End	▪ Node.js with Express.js
Database	▪ MongoDB(NOSQL Database)
API	▪ OpenAPI

2. OVERALL DESCRIPTION:

2.1 PRODUCT PERSPECTIVE:

The Institution currently uses hard copy of forms, which require faculties to manually seek approval from higher management. This apex approval application can be an easier way by just uploading the form and waiting for approval. It can be accessed with the bitsathy mail id of users and their faculty IDs.

2.2 PRODUCT FUNCTIONALITIES:

- **Automated Apex Form:** The pre-made Apex form can be filled and submitted directly without any hard copies. It also has pre-defined options that can be choosed.
- **User login :** All users can just login and access the apex approval application. This way nobody can access or have information about one's Apex except the required.
- **Dashboard :** A dashboard for every user to manage their information and have logs of them.
- **Filtering and Search :** The filtering of Apex can be done based on Date or Category which is an additional advantage of computerizing this process.

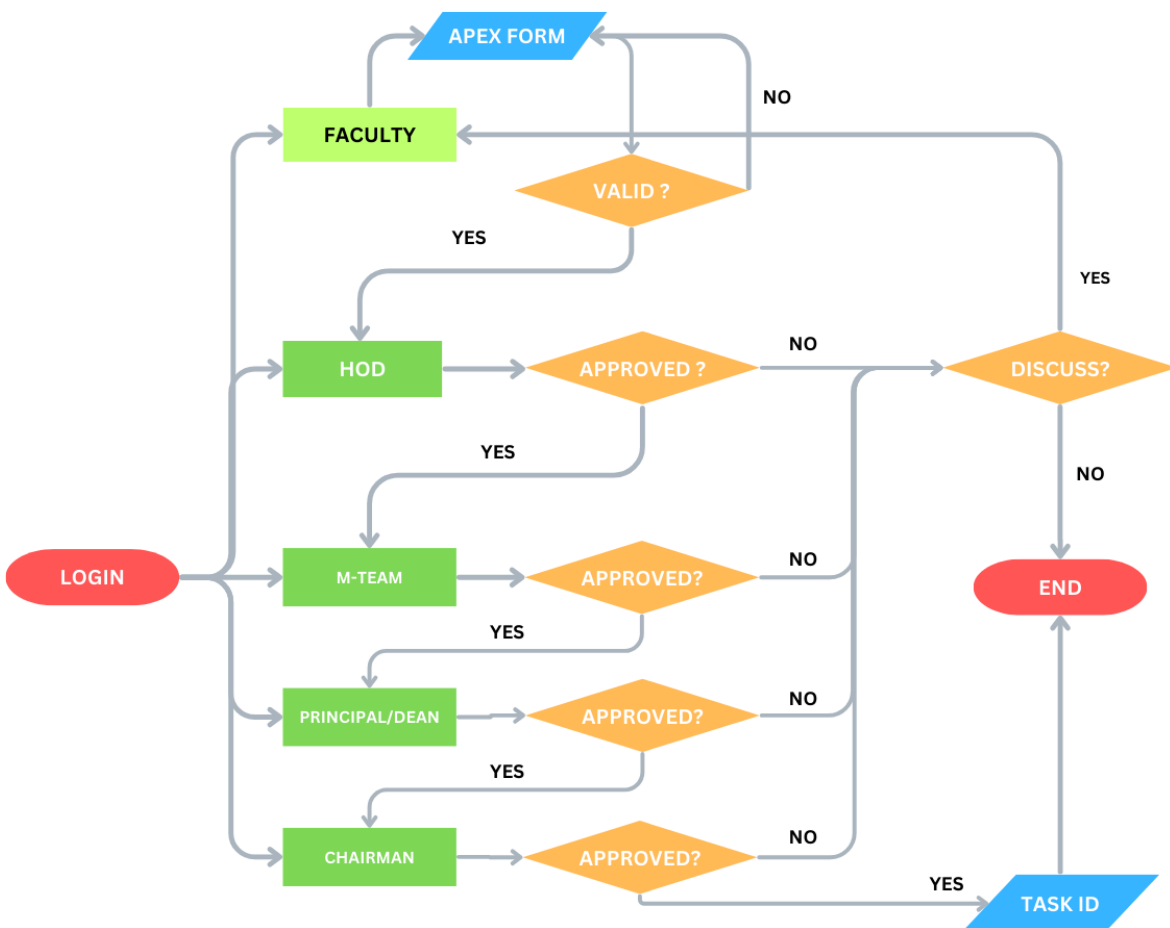
- **Status of Apex:** user can check the status of all Apex at any time to determine at which stage the Apex is at.
- **Automated Calculation** Field for Cost estimation of multiple objects in many quantities.

2.4 USER PERSONAS :

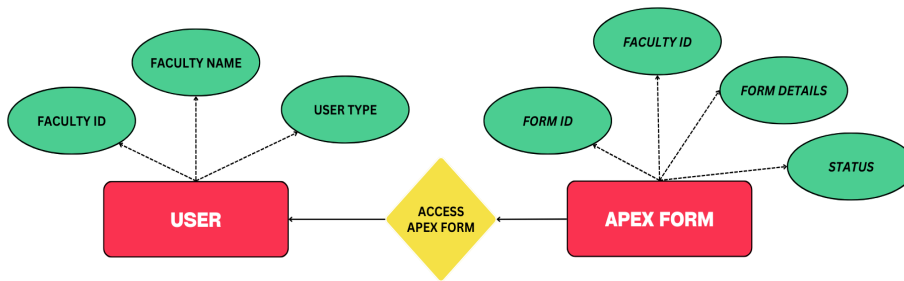
1. **Faculty :** Can fill Apex form and can view their apex form status
2. **HOD / Dean / Principal :** Can Approve, reject ,View Apex forms from Faculty.

2.5 USER CLASSES AND CHARACTERISTICS:

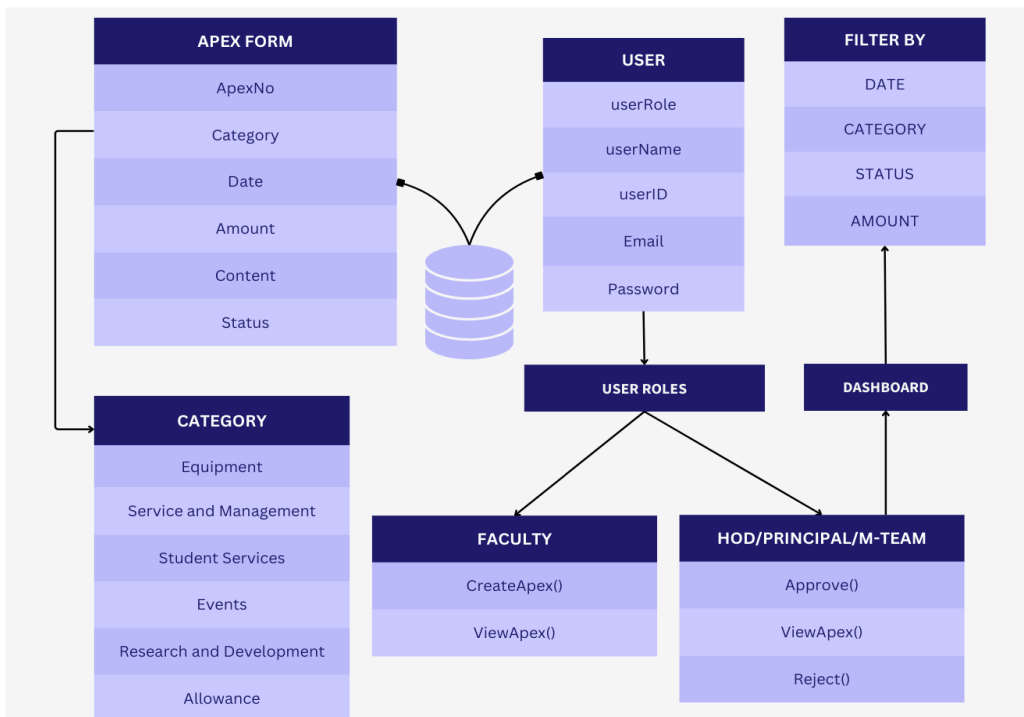
PROJECT WORKFLOW:



ER DIAGRAM:

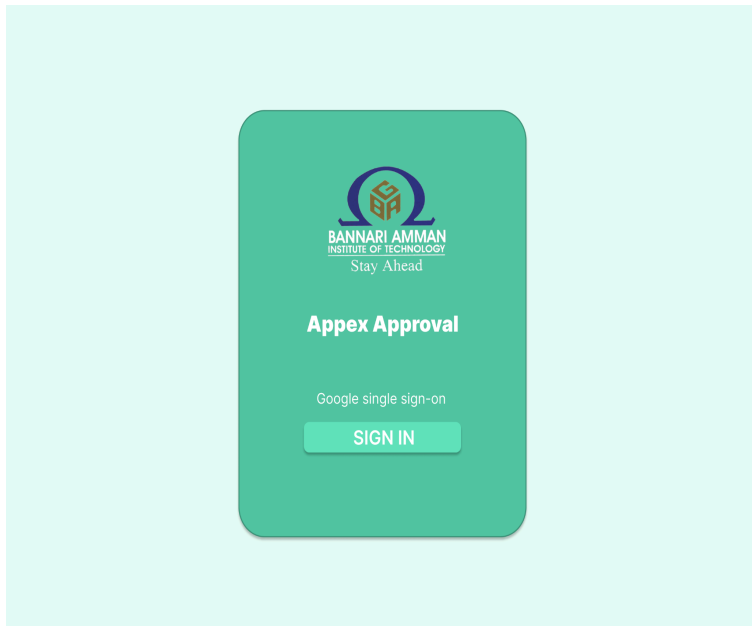


DATABASE MODELS:

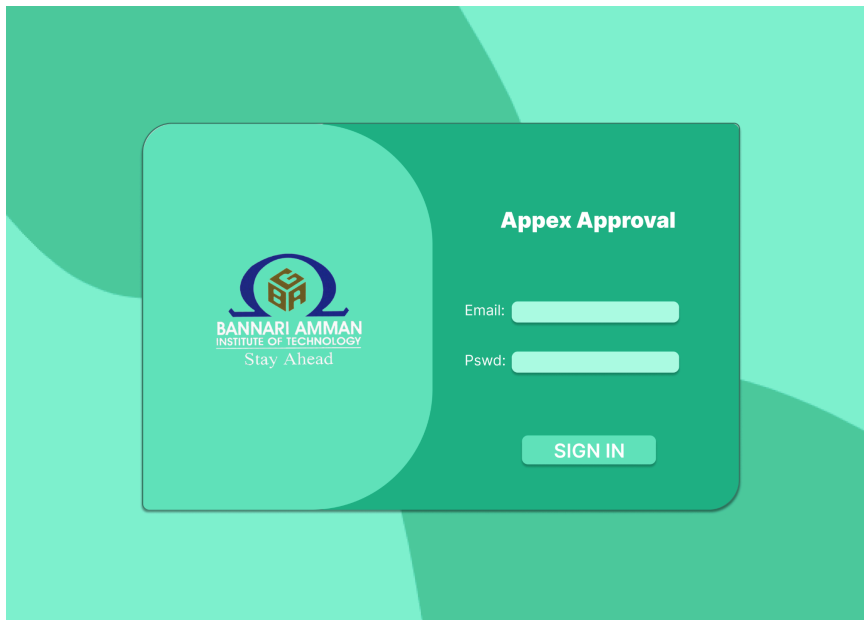


3. PROJECT DESIGN / PROTOTYPE:



1.LOGIN PAGE: (Google single Sign-on)



1. LOGIN PAGE: (email,password) :



2. APEX FORM:



Apex Form

Apex no- 000

Date: xy-zx-wy

Submitted To :

Select ✓

Subject: _____

Financial Requirement : ☐ Yes _____ ☐ No ☐ On Duty ☐ DA

Advance amount: _____

Category:

Select Category ✓

Description:

Mention Name: _____ ✓

Requirements (At our Institute) :

☒ Accomodation ✓

Outcome Expected and Auditable: _____ ✓

S.no	Name	Unit price	Qty	Amount

Total:

Inr xxxxx

Note :

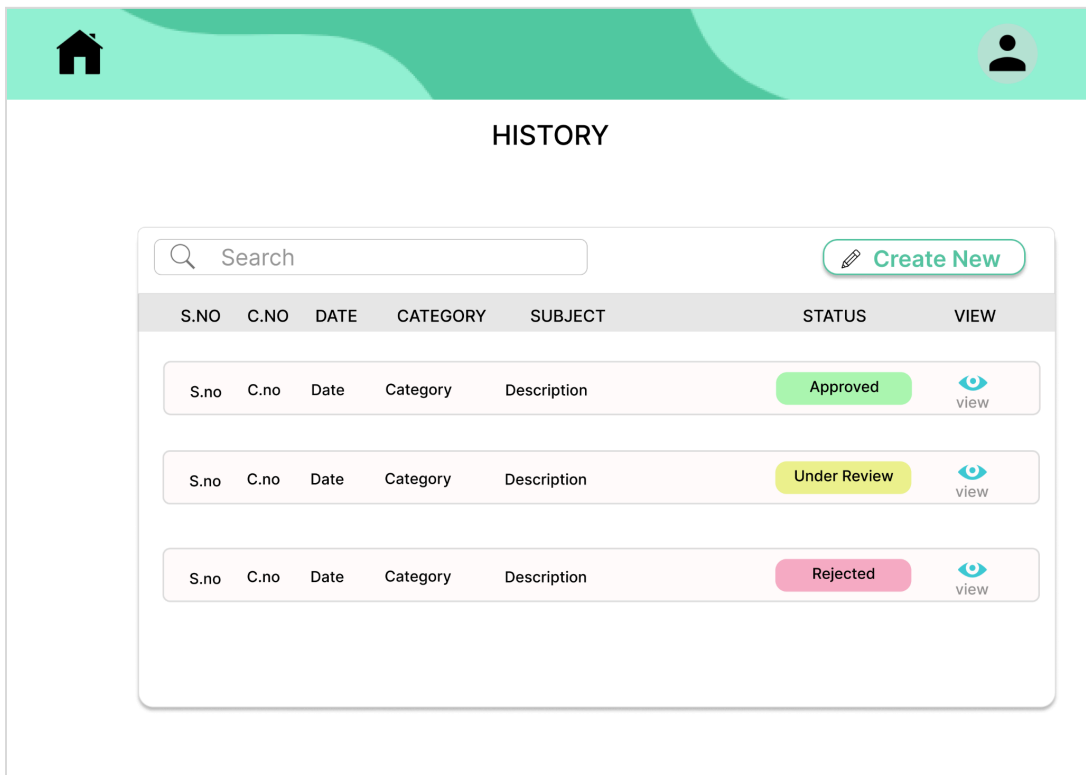
Submitted By :

STATUS -

Under Review

SUBMIT

3. FACULTY DASHBOARD:



4. APPROVER DASHBOARD:

