

## **FULL STACK PROJECT**

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**Seat No: 365** 

**Project ID: 33** 

**Project Title: APEX AUTOMATION** 

(Apex apply to approval)

# **Technical Components**

Component	Tech Stack	
Front End	HTML, CSS, JS	
Back End	Python, Django (Python Web)	
Database	PostgreSQL, MySQL	
API	Open API, SOAP APIs, REST Full API	

# **Implementation Timeline**

Phase	Report Date	Status	Notes
Stage 1	age 1 25.07.2024 <b>completed</b>	completed	Planning and
	23.07.2027	completed	Requirement
			Gathering
Stage 2			Design and
			Prototyping
Stage 3			DB Designing
Stage 4			Backend
			Implementation
Stage 5			Testing &
			Implementation
Stage 6			

### **Problem Statement:**

Implement an Apex Trigger to Automatically Apply Approval Process for High-Value Opportunities.

## **Objective:**

The goal is to automate the approval process for requests based on the amount specified by the user. The system will ensure that requests are reviewed and approved by the appropriate authority based on the amount, providing a streamlined and efficient workflow.

## **Scope:**

- ❖ Users submit requests with a specified amount and reason.
- \* Requests with an amount less than \$5000 are directed to the Head of Department (HoD) for approval.
- \* Requests with an amount equal to or greater than \$5000 are consolidated and sent to the Chairman for approval.

\* The process includes appropriate decision points and logging to ensure traceability and accountability.

#### **Process Steps:**

#### 1. User Submission:

❖ Users enter the amount and reason for their request and submit it for approval.

#### 2. Amount Check:

- ❖ The system checks if the submitted amount is less than \$5000.
- ❖ If the amount is less than \$5000, the request is sent to the HoD for approval.
- ❖ If the amount is equal to or greater than \$5000, the amount is consolidated, and the request is sent to the Chairman for approval.

#### 3. HoD Approval:

- ❖ If the amount is less than \$5000, the HoD reviews the request.
- ❖ If the HoD approves the request, it proceeds to the team review.
- ❖ If the HoD does not approve the request, the process ends.

#### 4. Team Review:

❖ For requests approved by the HoD, the team conducts a final review before concluding the process.

## 5. Chairman Approval:

- ❖ If the amount is equal to or greater than \$5000, the Chairman reviews the consolidated request.
- ❖ If the Chairman approves the request, a seal is provided.
- ❖ If the Chairman does not approve the request, the process ends.

#### 6. Provide Seal:

❖ Once the Chairman approves the request, the system provides a seal for the approved request, marking the completion of the process.

#### 7. Error Handling:

- ❖ The system includes error handling mechanisms to manage any issues that arise during the approval process.
- Detailed logging of the request ID, amount, and the approval decision (success or failure) is implemented for troubleshooting and auditing purposes.

#### 8. Constraints:

The project will strictly adhere to the specified requirements and will not include any additional functionality beyond the automatic approval process for high-value requests.

#### 9. Expected Outcome:

- ❖ A streamlined and efficient approval process that ensures highvalue requests are reviewed by the appropriate authority.
- Enhanced traceability and accountability through detailed logging and error handling mechanisms.
- Improved workflow efficiency and reduced manual intervention in the approval process.

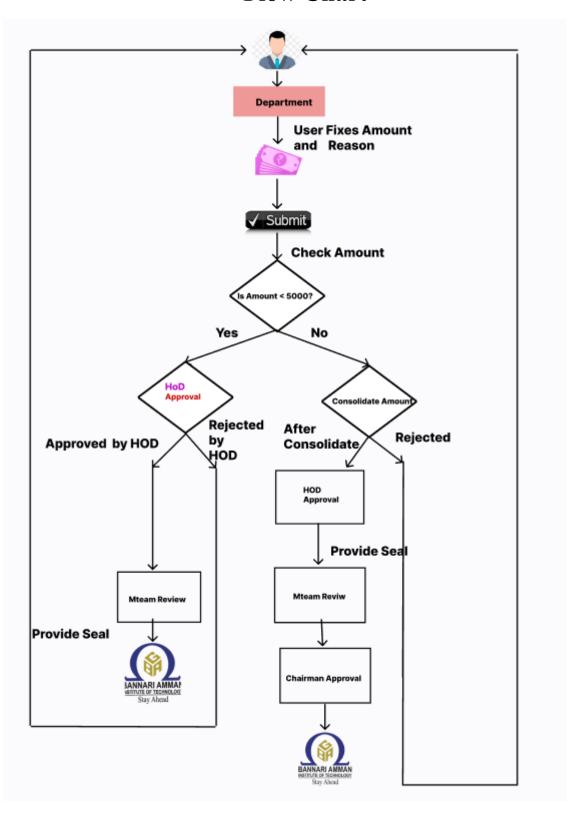
### **Detail Process:**

1. **User Submits Request:** User inputs Name, Staff ID, Amount, and Reason, and submits the request.

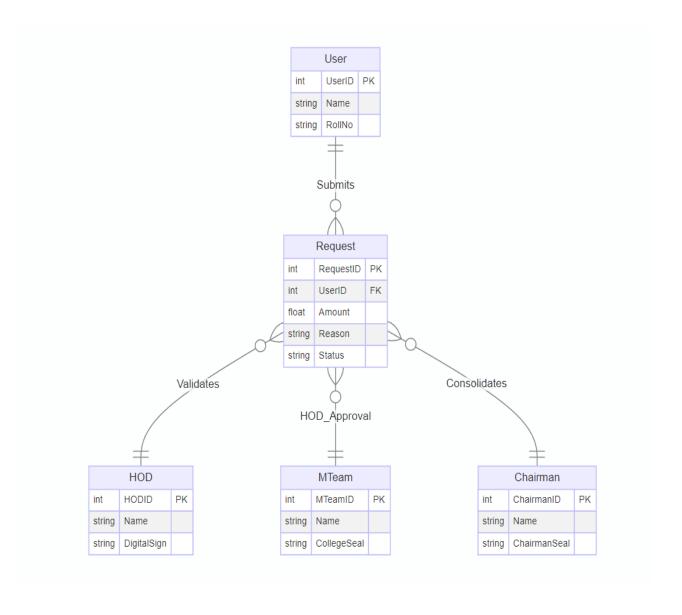
#### 2. Amount Check:

- **❖** If Amount < 5000:
  - HOD validates the request.
  - If HOD approves, HOD provides a digital sign.
  - MTeam validates and provides the college seal.
- **❖** If Amount > 5000:
  - The request is consolidated.
  - Chairman verifies the request and provides the chairman's seal.

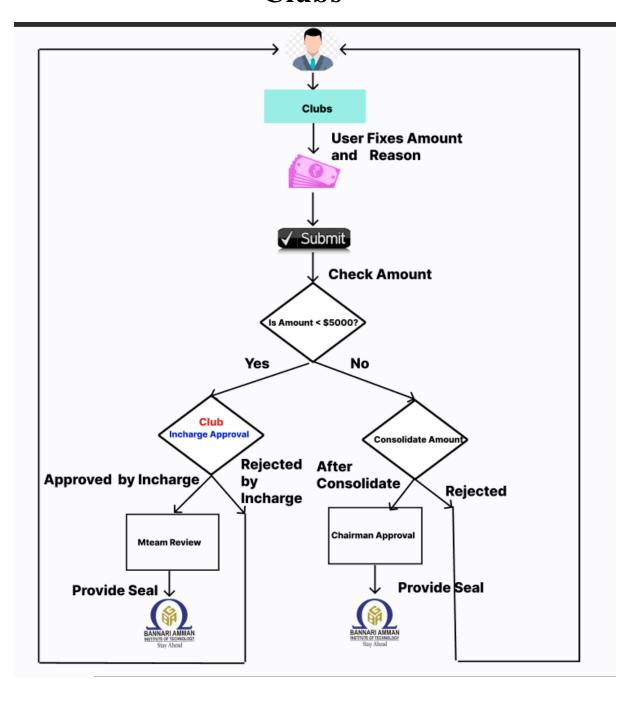
# **Flow Chart**



# **ER-Diagram**



# Clubs



## **PROTOTYPE**





