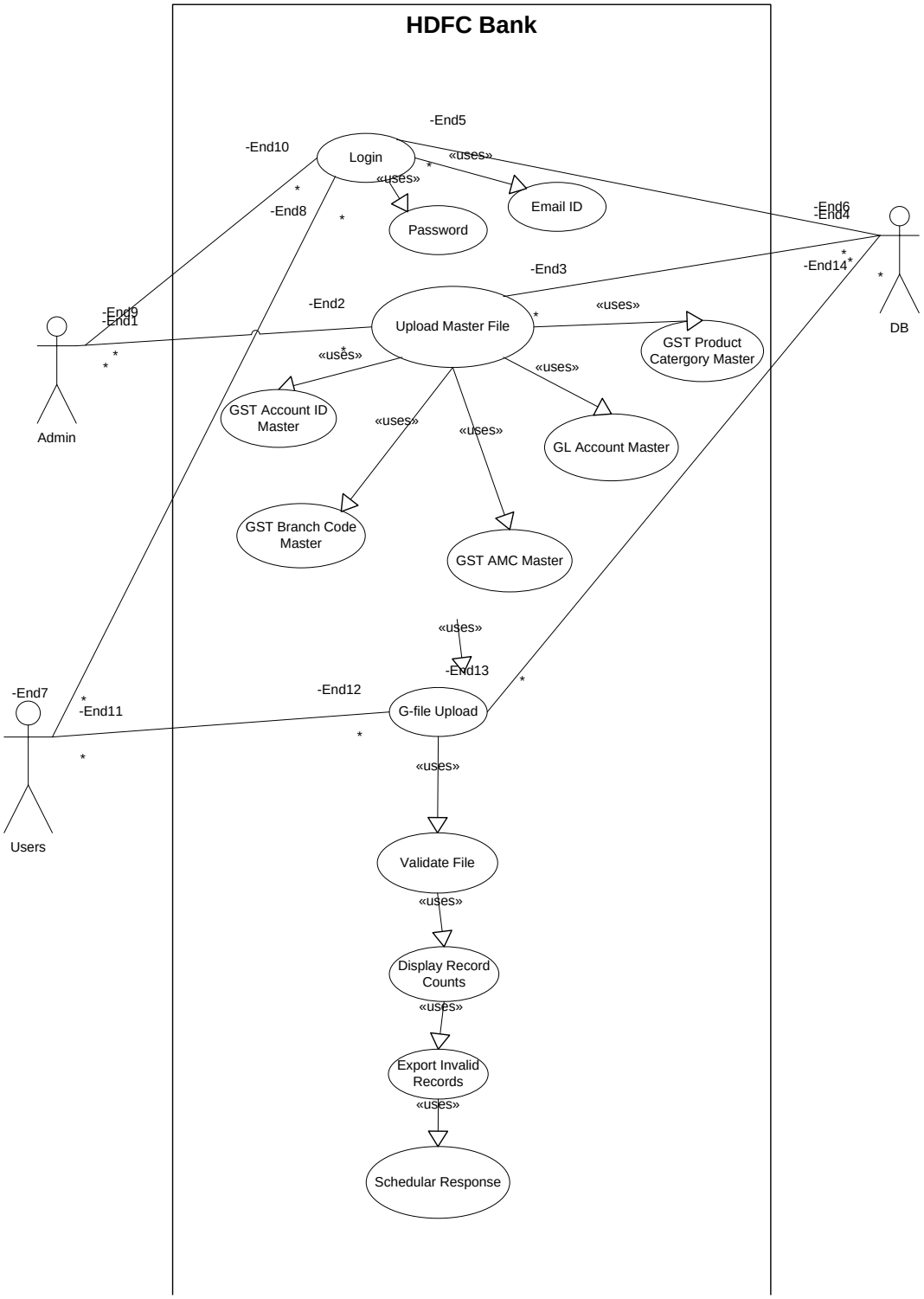
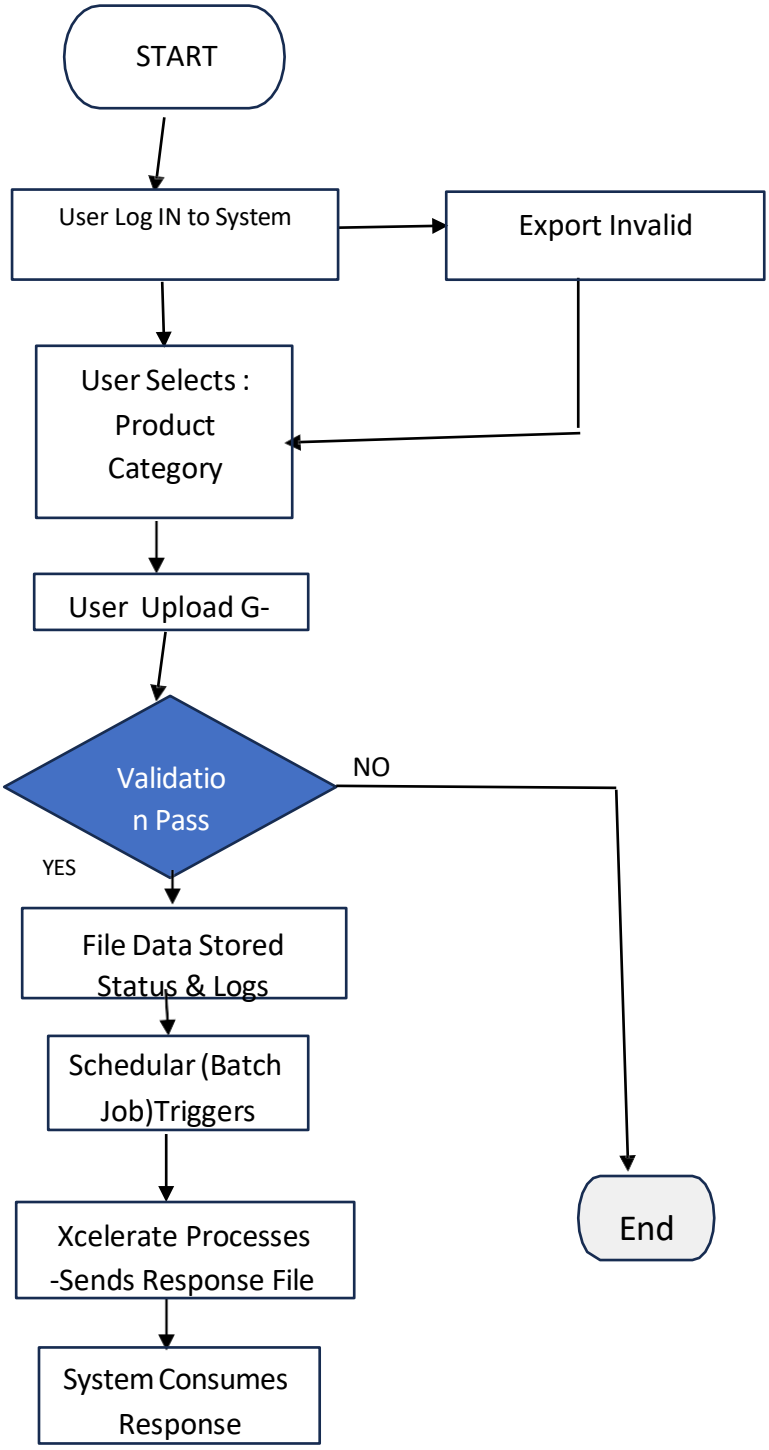
Document 6- Please prepare a use case diagram, activity diagram and a use case specification document.

Use case diagram :



Activity diagram



Use case specification document.

Sr no	Field	Description
1	**Use case Name**	**G File Upload and Validation**
2	**Use case Description**	This use case allows users (typically Admins or authorized users) to upload a G File (pipe-delimited .txt file) for GST compliance reporting. The system validates the uploaded file, displays total/valid/invalid record counts, and allows exporting invalid records.
3	**Actors Primary Actors Secondary actors**	• Primary Actor: Admin • Secondary Actors: System Scheduler, GST Masters (for validation)
4	**Basic Flow**	• **Admin navigates to: GST Reporting > File Upload Maker.** • **Admin selects:** ○ **Product Category (Mandatory)** ○ **Sub-category (Mandatory if applicable)** ○ **Month & Year** • **Admin browses and selects the G File to upload.** • **System performs validations:** ○ **File format (.txt)** ○ **Pipe-delimited format** ○ **Data validations based on GST Masters** • **On success:** ○ **System displays total records, valid records, invalid records.** ○ **Confirmation message with total transaction amount.** • **Admin can export invalid records as .xlsx with exception remarks.**
5	**ALTERNATE FLOW**	• **If file already exists:** ○ **System prompts: *"File already exists. Do you want to overwrite?"*** ○ **On "Yes" – Overwrites file and processes new data.** ○ **On "No" – Aborts upload.** • **If invalid file format:**

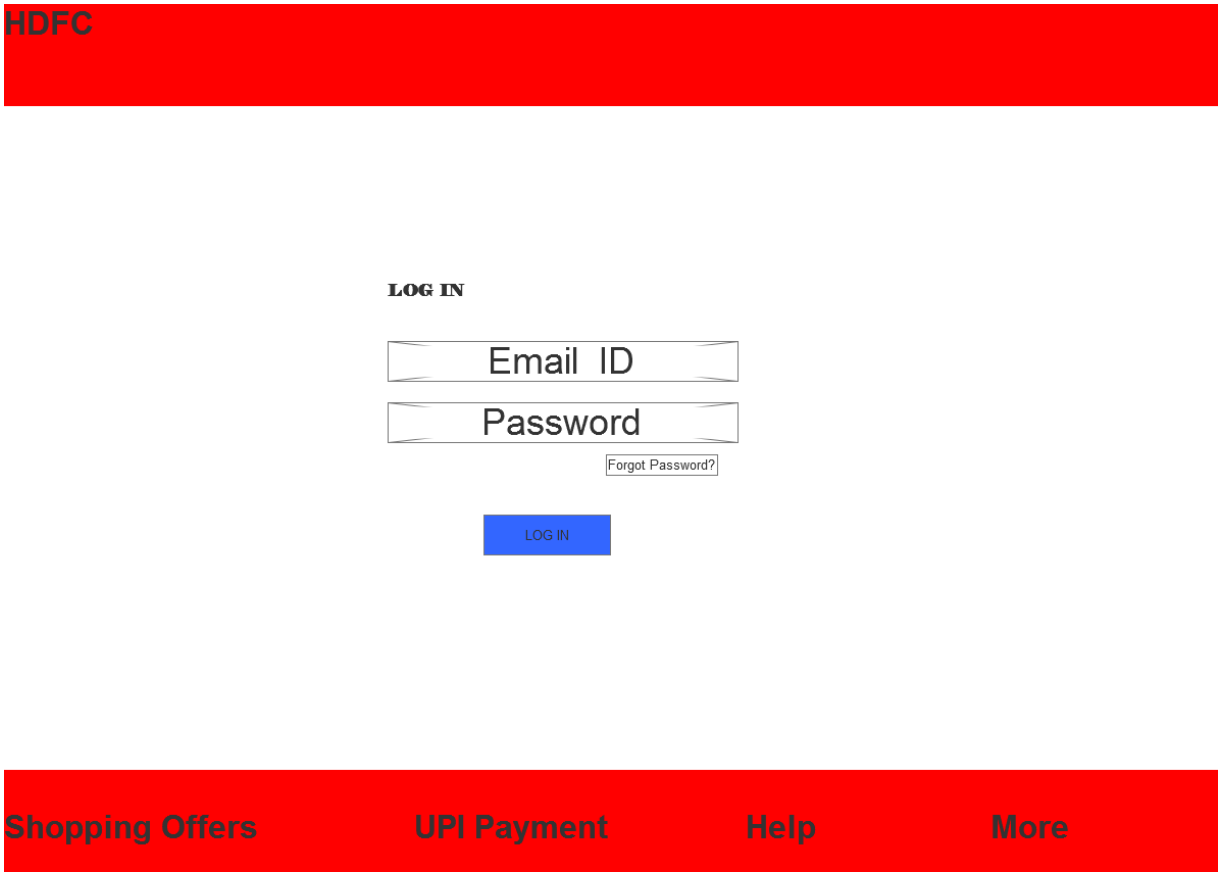
		○ **System shows message: *"Invalid file format or delimiter. Expected a .txt file with pipe-separated values."***
6	**Exceptional flows**	• **File fails validations:** ○ **Entire file is rejected.** ○ **System shows detailed error messages.** ○ **No records are processed.** • **File processing fails in Scheduler:** ○ **System halts downstream operations.** ○ **Log entries are generated.** ○ **Notification sent to admin if configured.**
7	**Pre- Conditions**	• **All GST Master data (Product Category, AMC, Branch Code, etc.) is uploaded and available.** • **Admin has access to File Upload Maker tab.**
8	**Post-conditions**	• **Valid records are accepted and stored.** • **Invalid records are exportable for correction.** • **Logs are updated for auditing.**
9	**Assumptions**	• All HDFC Bank clients (manufacturers) are expected to have a valid GSTIN. • Users are allowed to upload master data only; manual data entry is not permitted. • The system is not responsible for calculating any GST amounts. • Changes to the Product Master data are rare and usually happen once a year.
10	**Constraints**	**File Formats:** G Files must be in .txt format and use a pipe (|) to separate data. Master files must be in Excel format (.xls or .xlsx only). **No Manual Entry:** Data must be uploaded via files—manual typing is not allowed. **Master Data Required:** Uploaded files are checked against master data like AMC Master, Product Category, etc.

		If the master data is missing or wrong, the file will be rejected. **<u>Overwriting Files:</u>** If a file with the same name is uploaded again, the system asks for confirmation to replace the old one.
11	**Dependencies**	• GST Product Category Master • GST AMC Master • GST Account ID Master • GST Branch Code Master • GL Account Master • Configured SFTP Server
12	**Inputs and Outputs**	**Field** / **Type** / **Validation / Remarks** Product Category / Dropdown / Mandatory. Pulled from Product Category Master Sub-Category / Dropdown / Mandatory if exists. Depends on selected category Month & Year / Dropdowns / Mandatory. Month (MMM), Year (YYYY) G File (.txt) / File Upload / Must be pipe (` Export Invalid Records / Button / Generates .xlsx of invalid entries with error remarks
13	**Business Rules**	• Follow GST deadlines – All GST returns must be filed on time as per government rules. Keep data for 8 years – All records must be saved safely for future audits. • Data must be secure – All financial data should be protected and shared only with the right people. • Train users properly – All users should be trained and follow standard procedures.
14	**Miscellaneous Information**	• **Strict File Format Requirement:** Only .txt files with pipe (|) delimiter are accepted for G File uploads; otherwise, upload fails with a validation error. • **Mandatory Master Validations:** Each field (like Account ID, Product Category, GSTIN, etc.) is validated against its respective GST Master Data (e.g., Account ID Master, AMC Master).

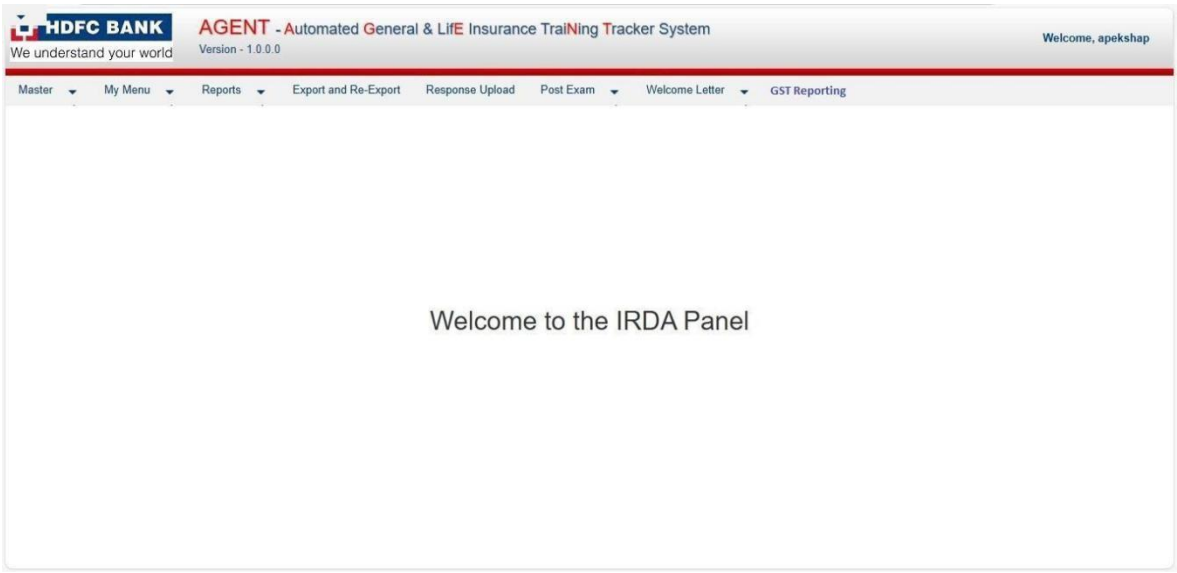
		• **Auto-Export of Invalid Records:** Invalid entries after file validation can be exported in Excel format (.xlsx) with detailed error remarks for correction. • **Overwrite Protection:** System prevents accidental overwrites by prompting: *"File already exists. Would you like to overwrite it?"* • **Post-Upload Summary:** After a successful upload, the system displays total, valid, and invalid records, along with the total transaction amount. • **Scheduler Automation for SFTP Integration:** Scheduled tasks handle file generation and response consumption from Xcelerate, including confirmation via .done files.

Screens and pages

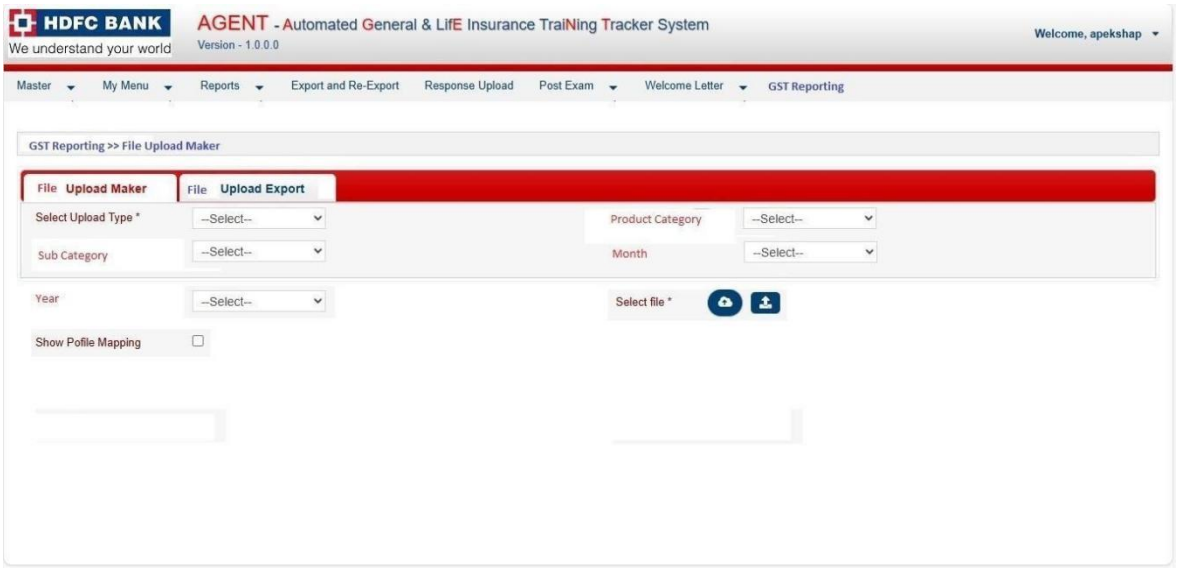
1) login CRM



2) Dashboard



3) File Upload Maker



Document 8- Tools-Visio and Axure

Write a paragraph on your experience using Visio and Axure for the project.

Microsoft Visio was primarily used to create UML diagrams, such as the Use Case Diagram and Activity Diagram. These diagrams helped in visually communicating the system's functional flow to both technical and non-technical stakeholders. Visio's drag-and-drop interface and standardized UML shapes made it easier to accurately represent the interaction between users and the system. This visual clarity also helped the development and testing teams to better understand the process logic and user behavior.

Axure RP was used for building interactive wireframes of the GST application. Starting from the homepage, I created mockups for core features such as login, dashboard , Uploading file , and logout. Axure allowed me to simulate end- to-end user journeys by linking the pages interactively, which made it easier for the client to validate the flow and design before development. The drag-and-drop components, dynamic panel features, and conditional logic in Axure helped in creating realistic prototypes, especially for key GST compliance Reporting System functions

Document 9- BA experience

My experience as BA in following phases:

1. Requirement gathering:

- During this phase, the client was not available at times. I proactively identified alternative Points of Contact (PoCs) from the client's team to continue gathering requirements without delays.
- I have created BRD document by interacting with client by Brainstorming technique and document analysis.
- I also used prototyping to present early-stage visual models to the stakeholders, which helped in capturing more accurate and detailed requirements.
- Then i have sorted the gathered requirements (duplicate requirements , grouping similar requirements module wise)
- Then i have validating the requirements using FURPS techniques ensuring requirements met Functionality, Usability, Reliability, Performance, and Supportability criteria.
- Theni i have prioritize the requirements using MoSCoW prioritization technique to identify and classify business needs into Must-Have, Should-Have, Could-Have, and Won't-Have categories.

2. Requirement Analysis

- I created UML diagrams (Use Case, Activity, Sequence diagrams) to visually represent and validate system processes and interactions.
- Then prepared functional requirement from business requirement .
- I developed Activity Diagrams to clearly show process flows and logic across different modules.
- These diagrams were shared with the internal team. In case of any disagreements or suggestions, I collected feedback and iterated accordingly.
- Based on finalized requirements, I prepared both the Business Requirements Specification (BRS) and System Requirements Specification (SRS) documents.

3. Design Phase

- I translated use cases into test cases to validate that all functionalities are covered.
- I have communicated with client for design and solution document (updated status to client and make them understand how solution would look like to prepare them for UAT)
- I maintained communication with the client to verify the proposed solution design and clarified any points related to UI/UX or functional behavior.
- Both positive and negative test cases were written to ensure robustness.
- I have initiated the preparation for end user manual
- The Requirement Traceability Matrix (RTM) was updated consistently to map each requirement with corresponding test cases and ensure complete coverage.

4. Development Phase

- I conducted Joint Application Development (JAD) sessions involving both business stakeholders and the development team for better alignment.
- During coding, I handled developer queries efficiently and provided quick clarifications.
- In case of any team conflicts or lack of cooperation, I held one-on-one discussions, explaining the project impact and promoting team alignment and motivation.
- Diagrams and SRS were frequently referred to ensure development aligned with agreed requirements.
- Despite challenges like team members missing meetings, I ensured meeting recordings were shared, followed by individual discussions to bring everyone up to speed.

5. Testing Phase

- Test cases were prepared directly from the approved use cases.
- I participated in functional and high-level testing, checking both system behavior and data integrity.
- I coordinated with the client to gather test data required for realistic testing scenarios.
- RTM was regularly updated to reflect testing progress and coverage.
- I obtained formal sign-off from the client upon successful validation.
- Prepared and guided the client team through User Acceptance Testing (UAT), ensuring all key features were tested before deployment.

6. Deployment:

- Forwarded RTM to client which should be attached to project closure document
- Coordinates to complete and share end user manuals
- Plans and organizes training sessions .
- I always make sure all the candidates attend the meeting