IT314 – Software Engineering

Group 22 – Fingenie

AI – Powered Balance Sheet Analysis Tool

System Testing

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1. File Upload System

EQUIVALENCE CLASS IDs

ECIDs	Description
EC001	Valid PDF file (financial statement)
EC002	Valid Excel file (.xlsx, .xls)
EC003	Invalid file format (e.g., .txt, .docx, .jpg)
EC004	File size within limit (≤10MB)
EC005	File size exceeds limit (>10MB)
EC006	Corrupted or unreadable file
EC007	Empty file
EC008	Valid financial statement structure
EC009	Invalid financial statement structure
EC010	Multiple file upload (batch processing)

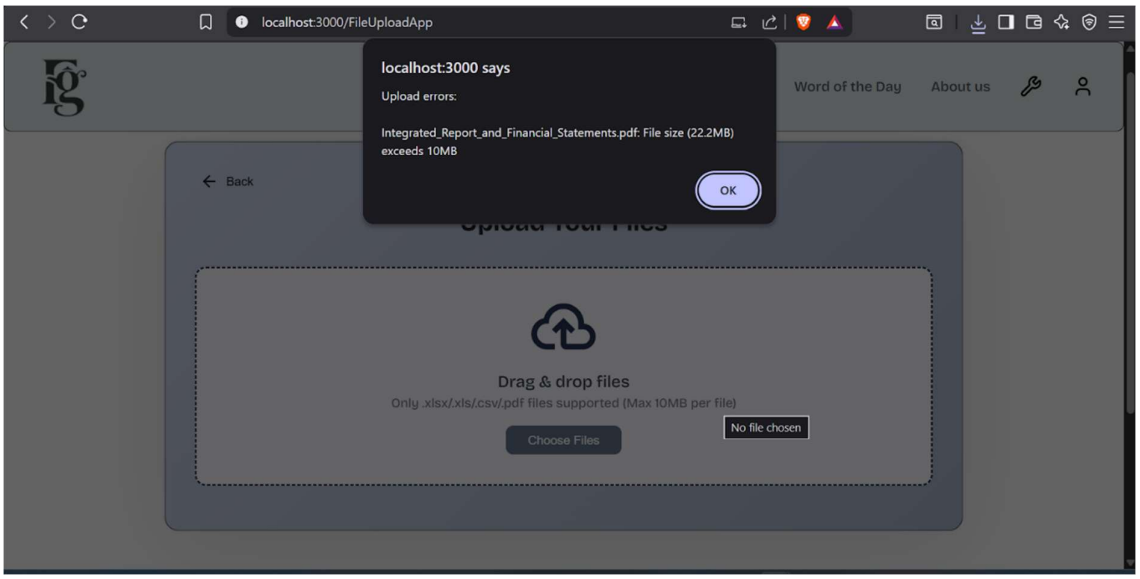
TEST CASES WITH ECID

Test Case ID	Test Scenario	Test Case Description	Test Data	Expected Result	Acceptance Criteria	ECIDs Covered
TC001	Valid PDF Upload	User uploads a valid PDF containing financial statements	File:Published-Results.pdf (Size: 9.1MB)	File uploaded successfully, processing initiated	System accepts valid PDF and begins data extraction	EC001, EC004, EC008

TC002	Valid Excel Upload	User uploads a valid Excel file with financial data	File: tatacsv_eda.xlsx (Size: 0.2MB)	File uploaded successfully, processing initiated	System accepts valid Excel and begins data extraction	EC002, EC004, EC008
TC003	Invalid Format	User attempts to upload unsupported file format	File: document.txt	Error message: "Upload errors: Only PDF,CSV,XLS,XLSX files allowed."	System rejects unsupported formats	EC003
TC004	Oversized File	User uploads file exceeding size limit	File:Integrated_Report_and_Financial_Statements.pdf (Size: 22.2MB)	Error message: "File size exceeds 10MB limit."	System enforces file size restrictions	EC005
TC005	Corrupted File	User uploads a corrupted PDF file	File: corrupted.pdf	Error message: "Unable to read file. Please upload a valid document."	System detects and rejects corrupted files	EC006
TC006	Empty File	User uploads an empty file	File: Blank.pdf(Size: 0KB)	Error message: "Network Error. Please Try Again."	System rejects empty files	EC007

TC007	Invalid Structure	User uploads PDF without valid financial statement format	File:SE_IT314(1).pdf		Error message: "Network Error. Please Try Again."	System validates financial statement structure	EC009, EC001

TC004:



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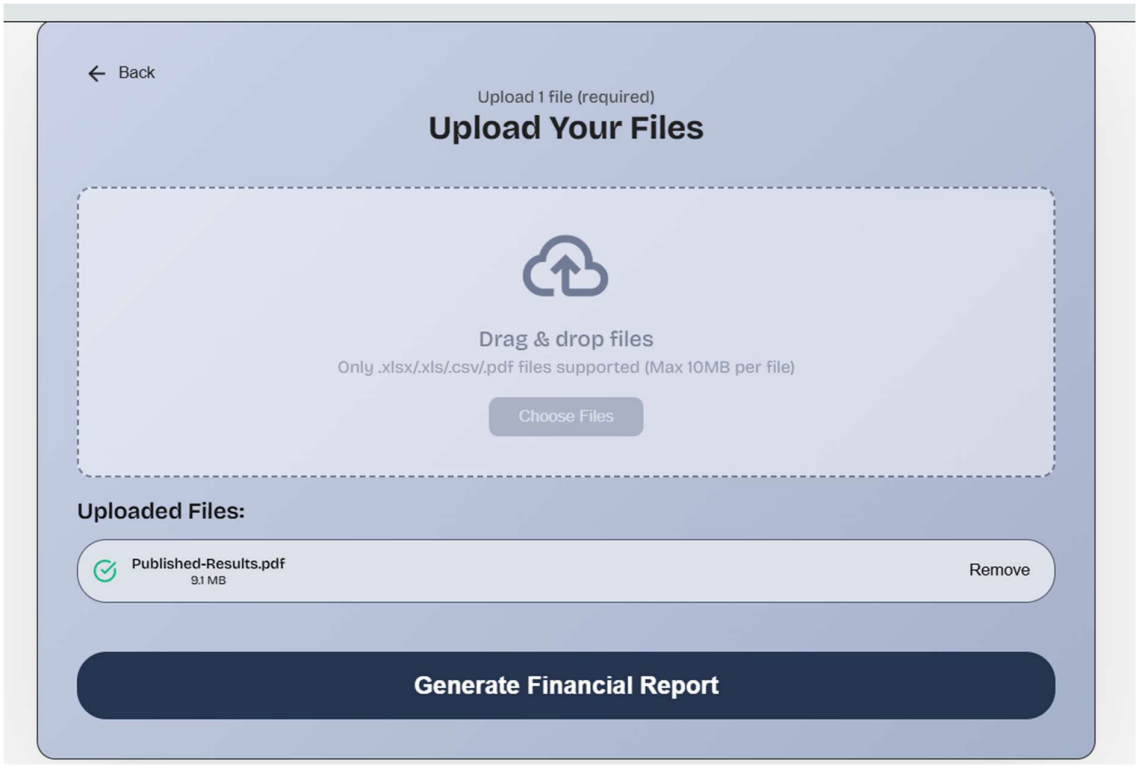
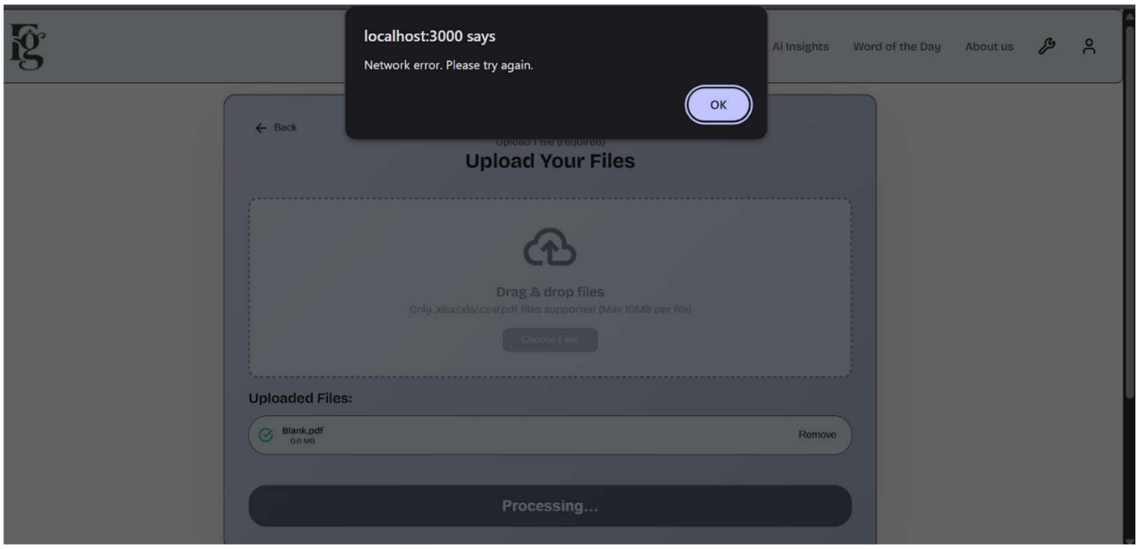
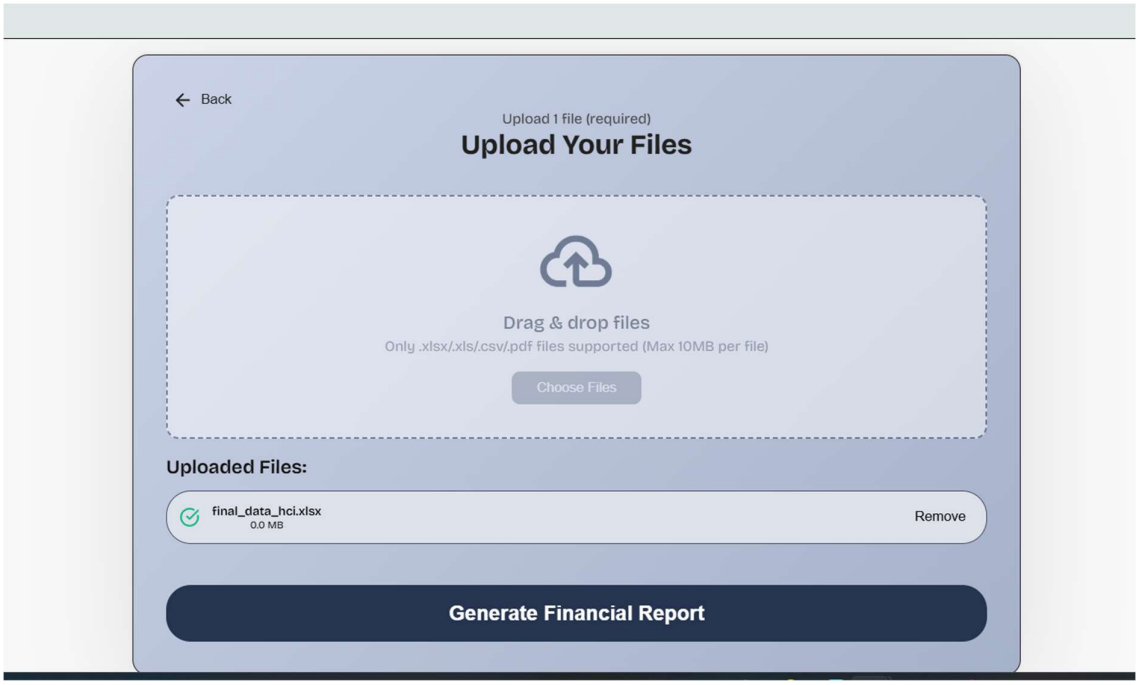
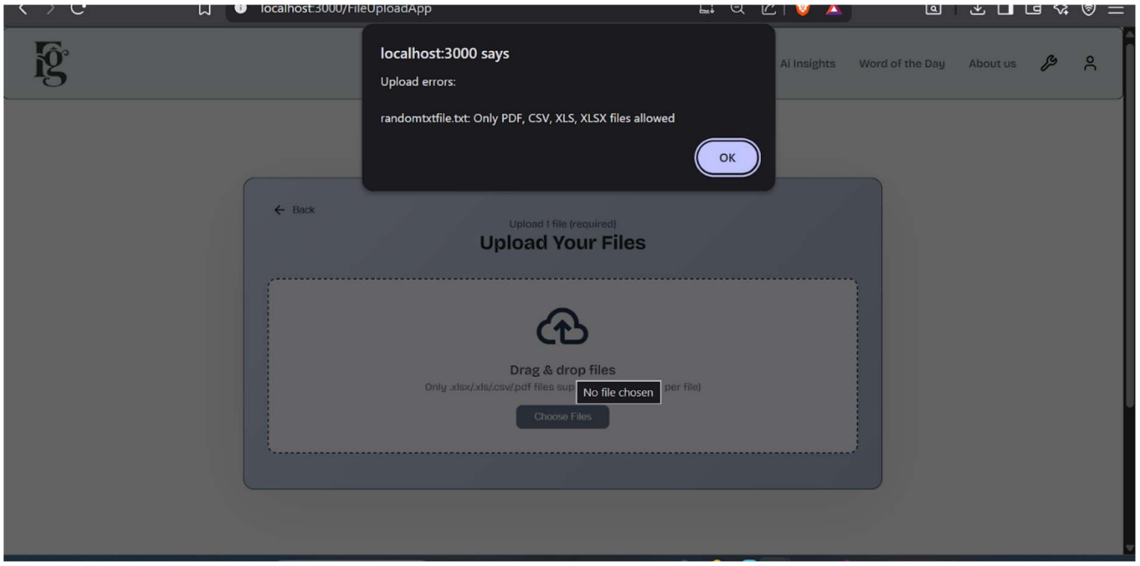

Back
Upload 1 file (required)
Upload Your Files
Drag & drop files
Only .xlsx/.xls/.csv/.pdf files supported (Max 10MB per file)
Choose Files
Uploaded Files:
Published-Results.pdf
9.1 MB
Remove
Generate Financial Report

TC006:

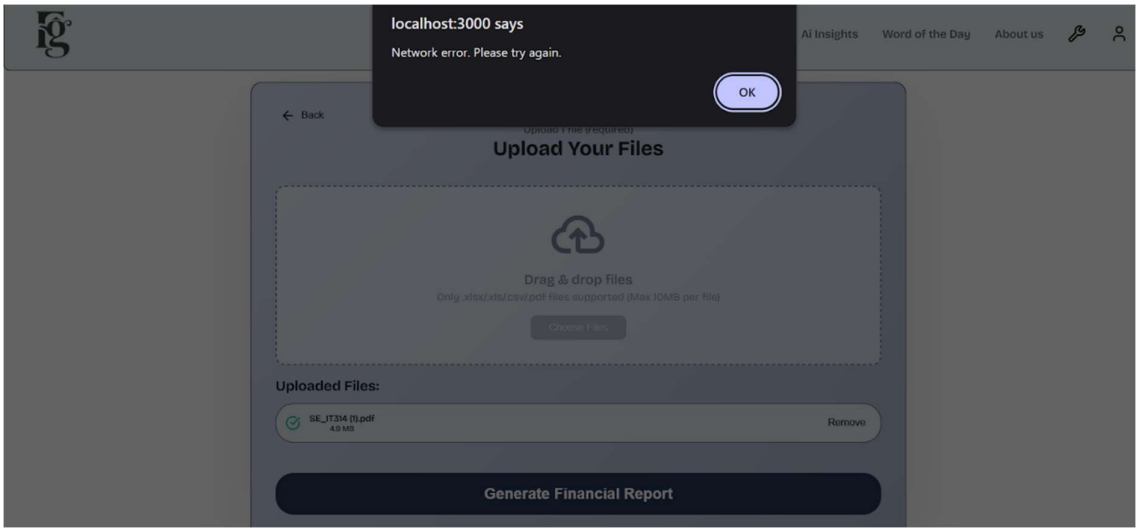

localhost:3000 says
Network error. Please try again.
OK
AI Insights
Word of the Day
About us
Back
Upload Your Files
Drag & drop files
Uploaded Files:
Blank.pdf
Remove
Processing...


Back
Upload 1 file (required)
Upload Your Files
Drag & drop files
Only .xlsx/.xls/.csv/.pdf files supported (Max 10MB per file)
Choose Files
Uploaded Files:
final_data_hci.xlsx
0.0 MB
Remove
Generate Financial Report

TC003:


localhost:3000/FileUploadApp
localhost:3000 says
Upload errors:
randomtxtfile.txt: Only PDF, CSV, XLS, XLSX files allowed
OK
AI Insights
Word of the Day
About us
Back
Upload 1 file (required)
Upload Your Files
Drag & drop files
No file chosen
Choose Files

TC007:



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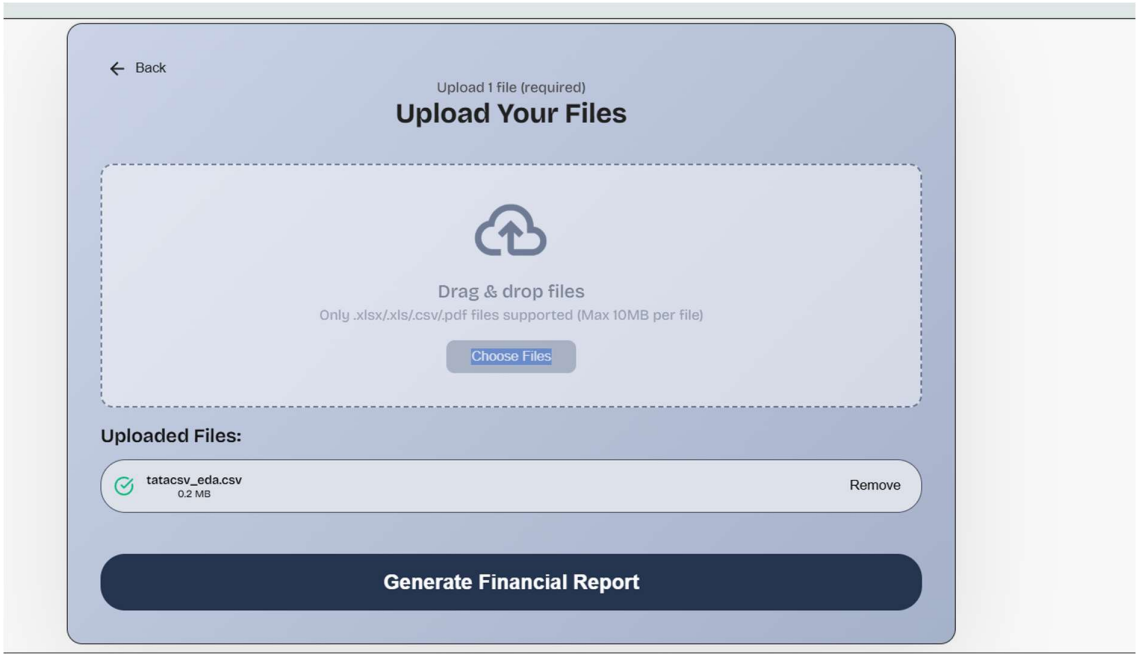


2. Email & Password & Username

EQUIVALENCE CLASS IDs

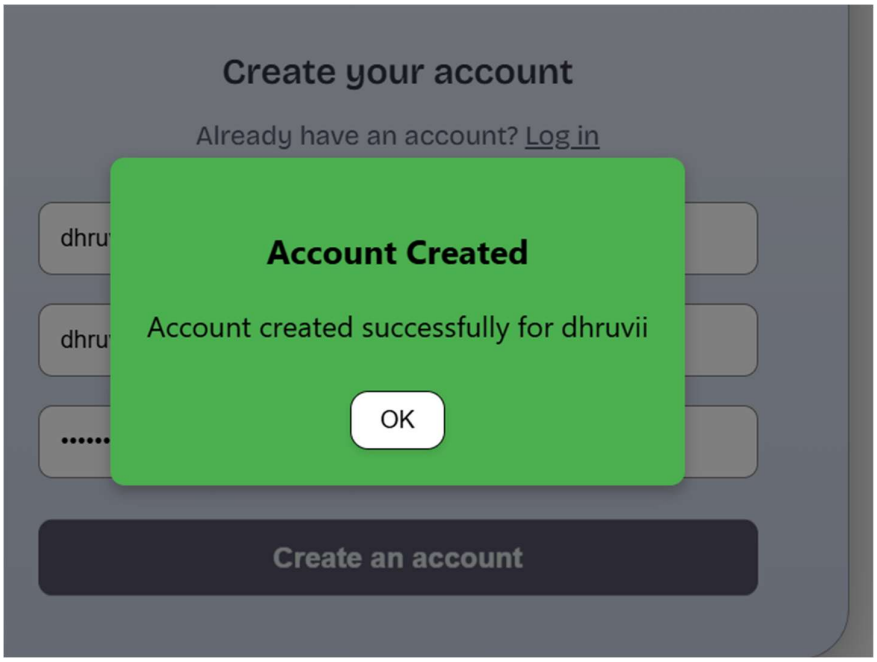
ECIDs	**Description**
EC101	Valid Email ID
EC102	Invalid Email ID

EC103	Valid Password
EC104	Invalid Password
EC105	Registered Email(for Login)
EC106	Correct Password
EC107	Email that is not registered
EC108	Incorrect Password
EC109	Registered Username
EC110	Unregistered Username

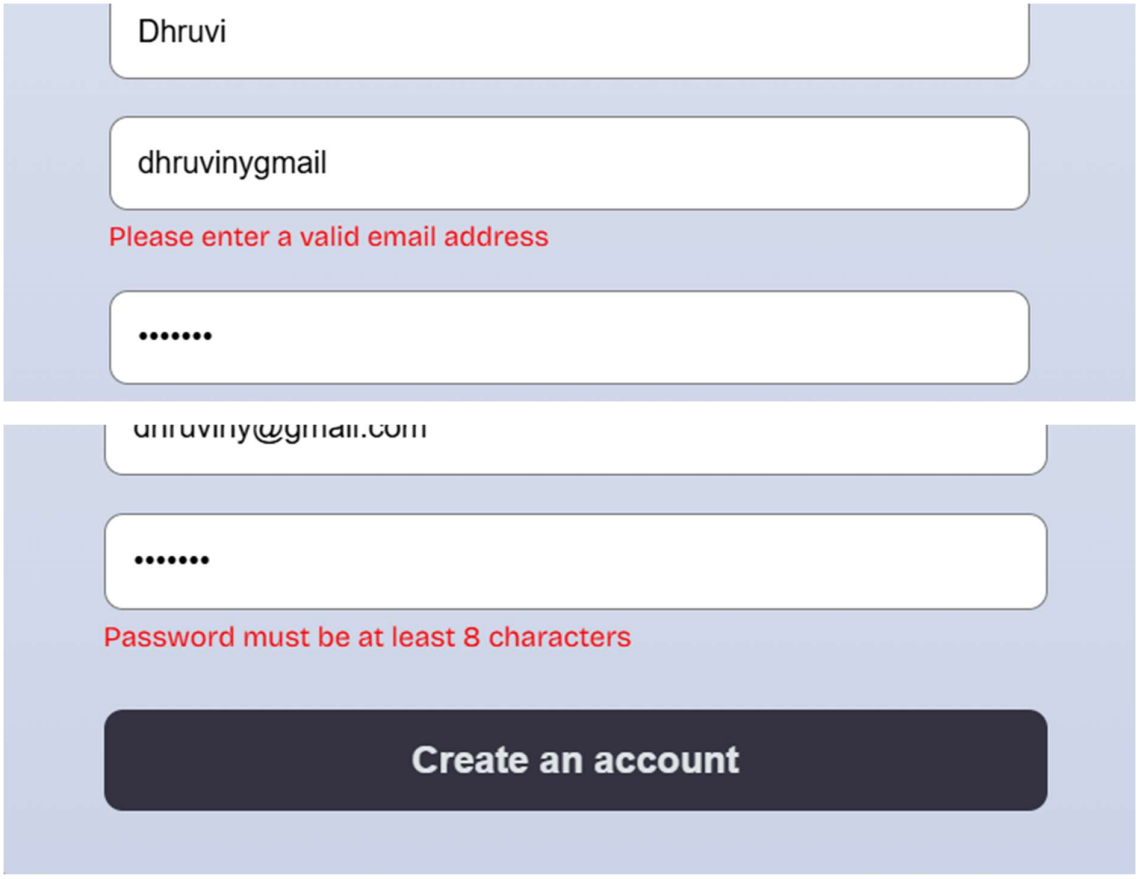
TEST CASES

Test Case ID	Test Scenario	Test Case Description	Test Data	Expected Result	Acceptance Criteria	ECIDs Covered
TC101	Valid Email address with valid password	Registration with valid credentials	Valid credentials	User getting registered and being logged in	User getting signed up	EC101, EC103
TC102	Invalid format Email address and Password	Register using invalid format email address and password	Invalid formatted email and password	System prompts user to give valid credentials	System not accepting non-correctly formed email and password	EC102, EC104
TC103	Wrong credentials	User logging in using wrong credentials	Unregistered username	System prompts user to provide valid credentials	System not accepting unregistered login request	EC107

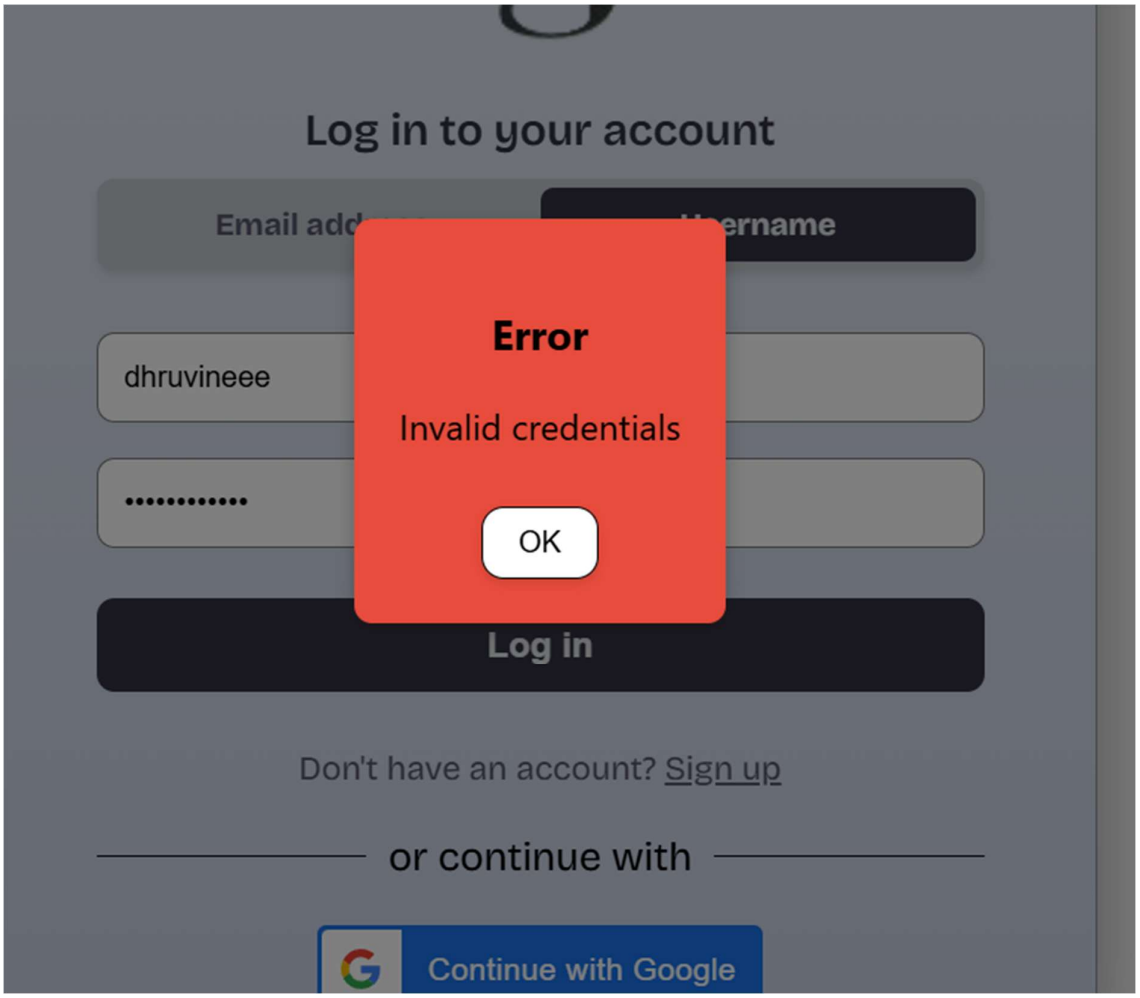
TC101:


Create your account
Already have an account? Log in
Account Created
Account created successfully for dhruvii
OK
Create an account

TC102:


Dhruvi
dhruvinygmail
Please enter a valid email address
Password must be at least 8 characters
Create an account

TC103:



3. KPI Calculation & Analysis

EQUIVALENCE CLASS IDs

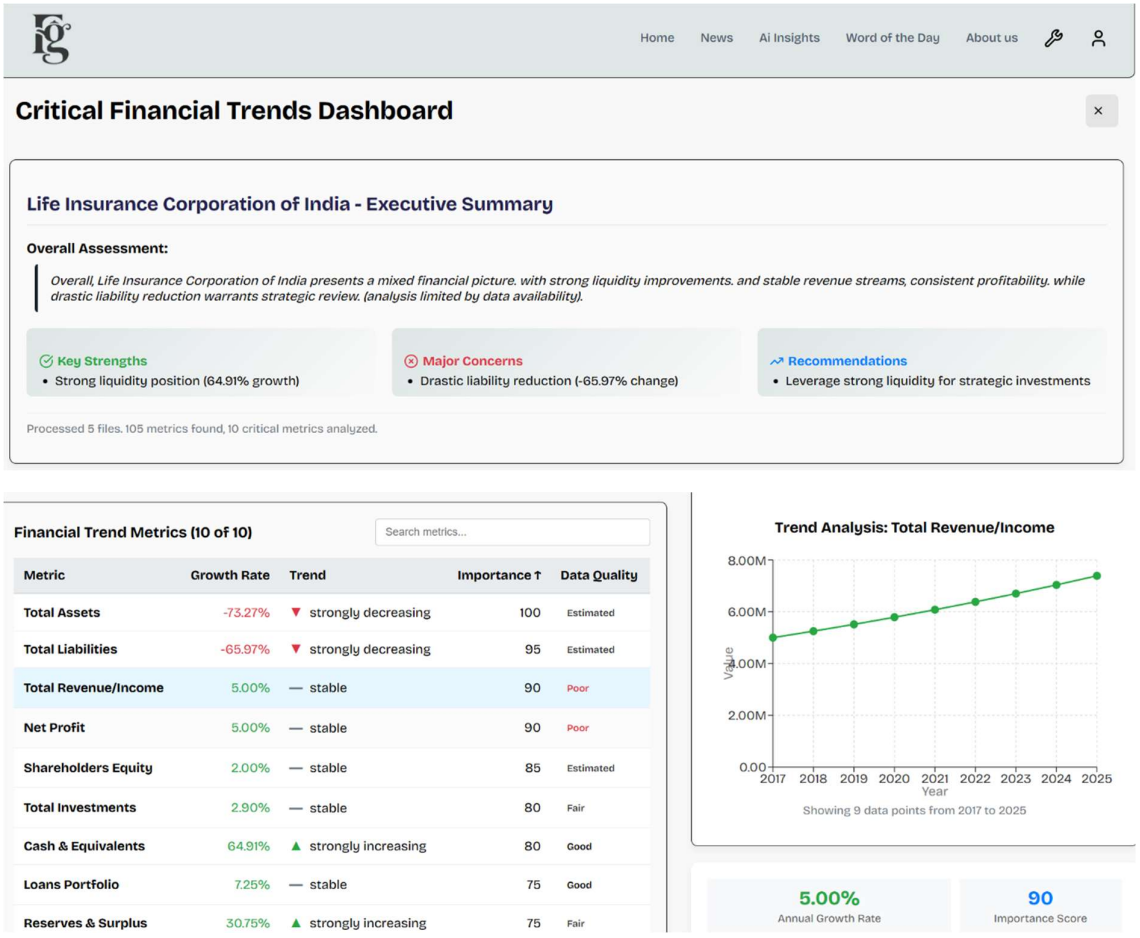
ECIDs	Description
EC201	Valid data for ratios
EC202	Historical trend analysis (multi-period)
EC203	Year-over-year growth calculations

TEST CASES

Test Case ID	Test Scenario	Test Case Description	Test Data	Expected Result	Acceptance Criteria	ECIDs Covered

TC201	Test KPI and Trend Analysis	Give year wise trend analysis based on given key performance Index	Balance Sheet over a period of time	Accurate calculation of all metrics	Calculated Results with respect to given data	EC201, EC202, EC203

TC201:



4. Public Company Search

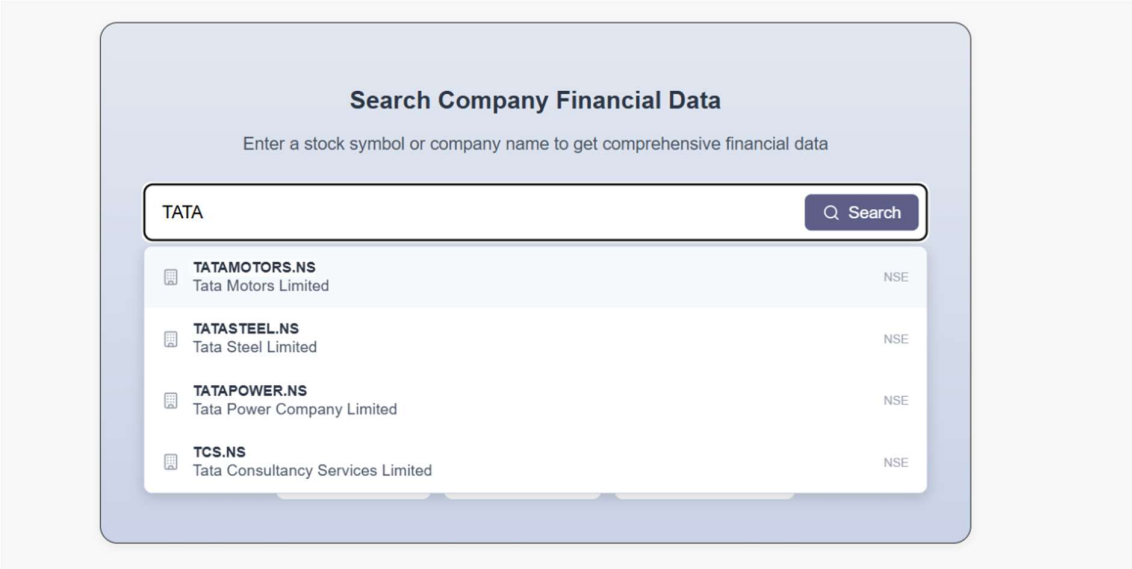
EQUIVALENCE CLASS IDs

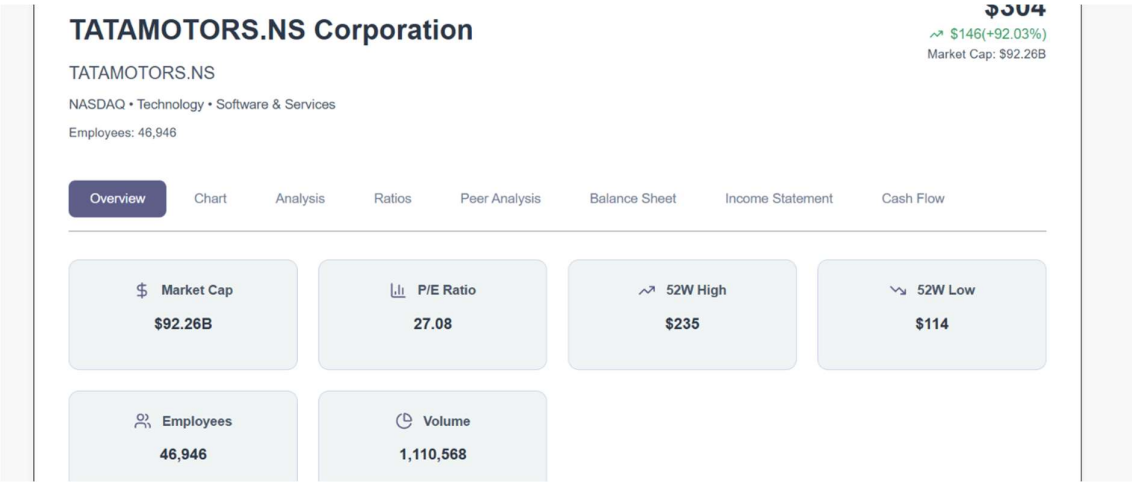
ECIDs	Description
EC301	Valid Company That is available
EC302	Company that is not available

TEST CASES

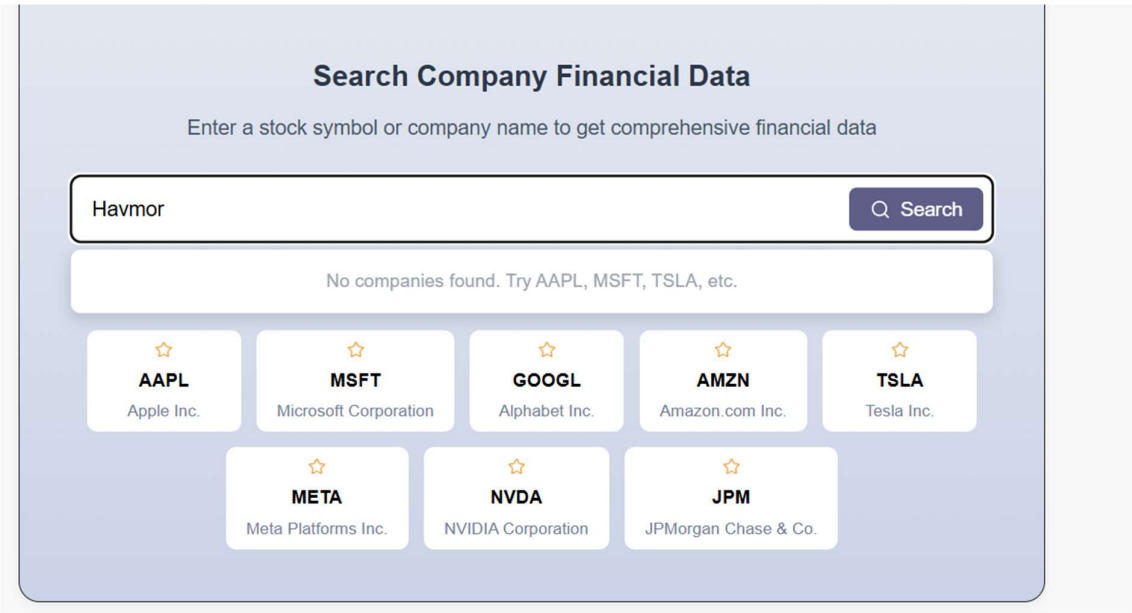
Test Case ID	Test Scenario	Test Case Description	Test Data	Expected Result	Acceptance Criteria	ECIDs Covered
TC301	Valid Company Data	Searching Valid Data	Valid Company Name	Valid Data of the Company	Valid Comapany data	EC301
TC302	Invalid Company Data	Searching Company that is not public or not available	Invalid Company Name	Error	System prompts that company not available	EC302

TC301:





TC302: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Microsoft Corporation
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Alphabet Inc.
AMZN
Amazon.com Inc.
TSLA
Tesla Inc.
META
Meta Platforms Inc.
NVDA
NVIDIA Corporation
JPM
JPMorgan Chase & Co.