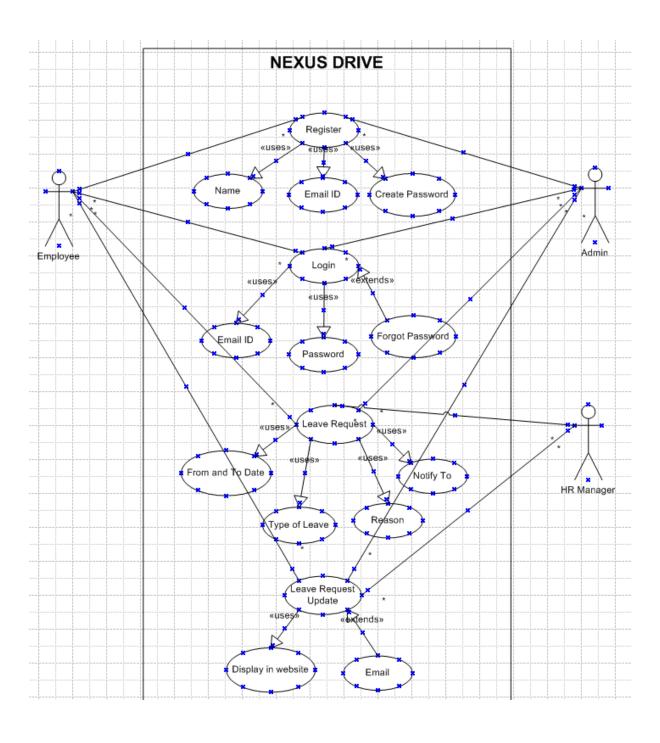
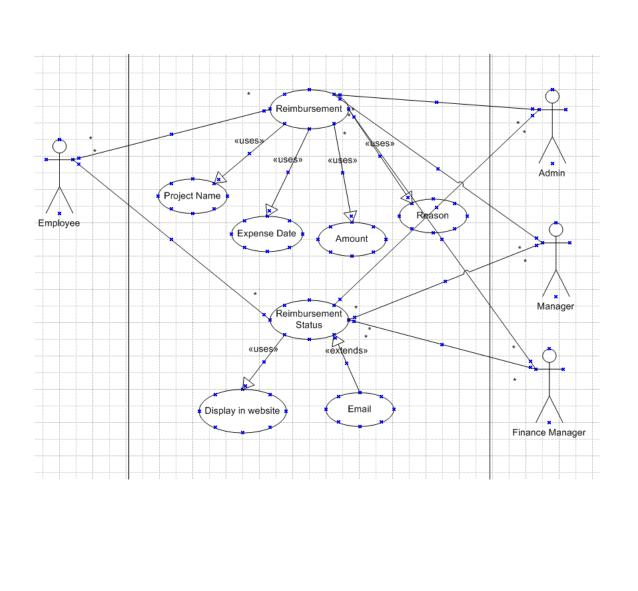
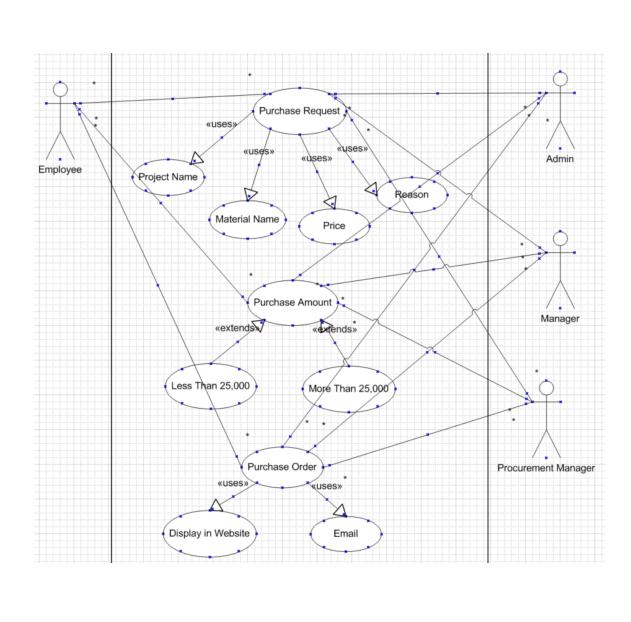
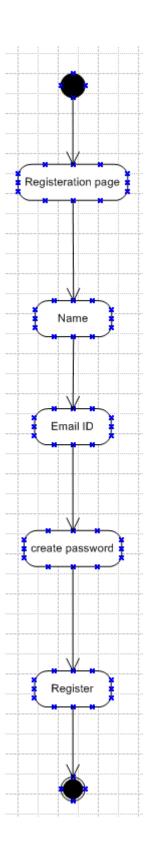
# Waterfall Model Documents Deliverables - Part-2/2

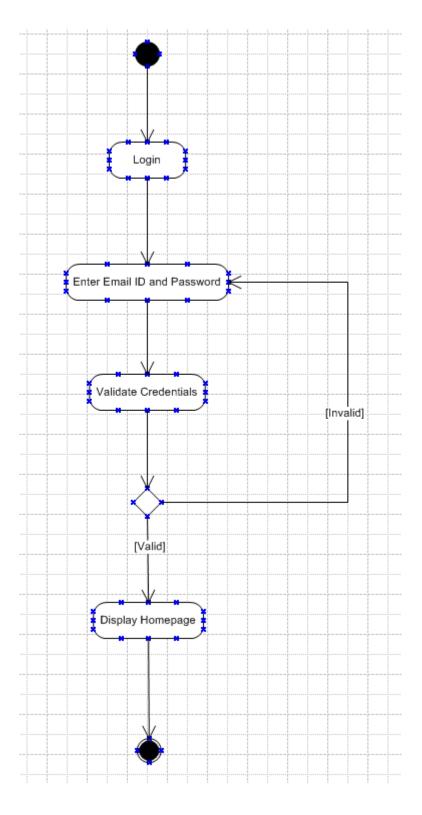
# Document – 6 (Use Case Diagram)

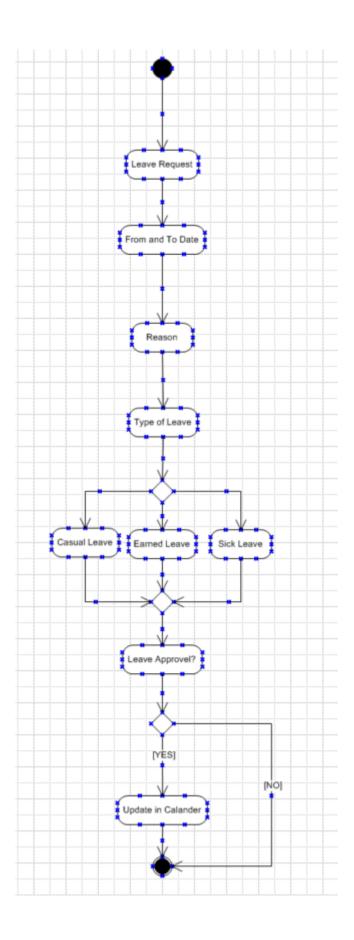


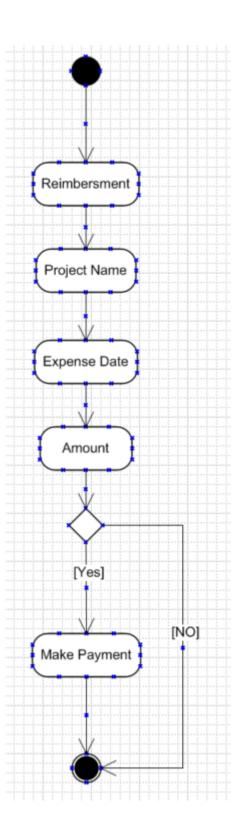


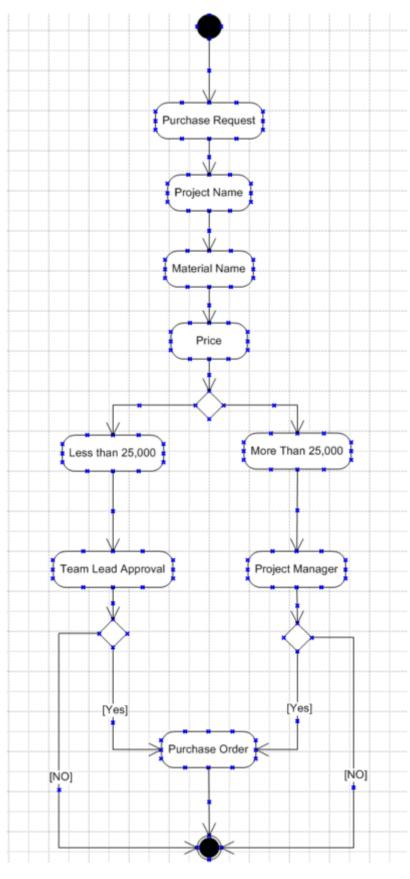












# Use Case Specification

User Case ID	UC001				
Use Case Name	Create User Account				
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025		
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025		
Actor	HR Manager				
Description	This use case allows the	e HR Manager to create	a new user account for		
	an employee by capt	uring their Name, Em	ail ID, and creating a		
	password.				
Pre-Condition	The HR Administrato	r must be logged int	to the platform with		
	administrative privilege	?S.			
Post-Condition	A new user account is o	reated, and an automat	ed welcome email with		
	login instructions is sen	t to the employee.			
Normal Flow or	Step 1- HR Admin logs	•			
events/Basic flow		gates to the "User Manag	<b>-</b>		
Happy Path		s the "Add New User" bu	ıtton.		
	Step 4- System displays	•			
	· ·	rs the employee's Name			
	Step 6- System auto-generates a secure, temporary password.				
	Step 7- HR Admin clicks "Create User."				
	· · · · · · · · · · · · · · · · · · ·	Step 8- System validates that the email is unique and creates the			
	account.	والعراب المستمر والمستمر والمستمر			
	1	welcome email with th	ie temporary password		
Altamatica Flace	and login link to the en	ipioyee.			
Alternative Flow	1. Duplicate Email ID:	on 9 of the Normal Flour			
	- This flow begins at step 8 of the Normal Flow The System validates the data and finds that the Email ID already				
	exists.				
		n error message: "User	with this email already		
	exists."	menor message. Oser	with this cirian aneday		
		nen search for the exist	ing user or correct the		
	email address.		g door or correct time		
Exceptions	If the email system fails at step 9, the System will create the user but				
	display a notification to the HR Admin that the welcome email could				
	not be sent.				
Frequency of Use	Moderate				
Assumptions	Customer is registered, understands online payment process.				
	The provided employee email address is valid and active.				

User Case ID	UC002		
Use Case Name	User Login		
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025
Actor	Employee, Manager an	d Admin	
Description	This use case allows a r	egistered user to secure	ely access their account
	using their Email ID a	nd Password, and inclu	des a Forgot Password
	option.		
Pre-Condition	The user must have an		
Post-Condition		ly authenticated and re	
	-	they have successfully re	set their password.
Normal Flow or	Step 1- User opens the		
events/Basic flow	<u> </u>	ir registered Email ID an	d Password.
Happy Path	Step 3- User clicks the '	•	
	Step 4- System validate		
	Step 5- Upon success, the System redirects the user to their dashboard.		
Alternative Flow	1. Invalid Credentials:		
	- This flow begins at step 4 of the Normal Flow.		
	- The System fails to validate the credentials.		
	- The System displays an error message: "Invalid Email ID or Password."		
	2. User Forgets Password:		
	_	User clicks the "Forgot	Password" link.
	- The System prompts f	or the user's Email ID.	
	- The User enters their	email and submits.	
	- The System sends a password reset link to the registered email.		
Exceptions	- If an account is locked after multiple failed login attempts,		
	the System displays an error: "Your account is locked. Please contact		
	support."		
Frequency of Use	Moderate		
Assumptions	- The user has access to their registered email account to perform a		
	password reset.		

User Case ID	UC003		
Use Case Name	Submit Leave Request		
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025
Actor	Employee		
Description	Allows an employee to	submit a request for tim	e off by providing From
	and To Date, Type of	leave, Reason, and no	tifying a specific team
	member (Notify To mer	mber).	
Pre-Condition	The employee is logged	-	
Post-Condition	A leave request is crea	ted with "Pending" stat	us, and the designated
	manager is notified.		
Normal Flow or		in and navigates to the	e "Leave Management"
events/Basic flow	module.		
Happy Path	Step 2- Employee clicks		
		the leave request form.	
	Step 4- Employee selects the From and To Date, Type of leave, and		
	enters a Reason.		
	Step 5- System displays the designated approver (Notify To member).		
	Step 6- Employee clicks "Submit."		
	Step 7- System creates the request, logs it, and notifies the manager.		
Alternative Flow	1. Insufficient Leave Balance:		
	- This flow begins at step 6 of the Normal Flow.		
		the request and detec	ts an insufficient leave
	balance.		
	_ · · · · · · · · · · · · · · · · · · ·	a warning: "You have	
	•	o submit as unpaid leave	
	- The Employee can choose to proceed or cancel.		
Exceptions	- If the system is down during submission, the request will not be saved,		
	and the user will be notified to try again later.		
Frequency of Use	Moderate		
Assumptions	- The company's leave policies are correctly configured in the system.		

User Case ID	UC004		
Use Case Name	View Leave Request Status		
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025
Actor	Employee and Manage	r	
Description	Allows users to view t	he status of a submitte	ed leave request via a
	Display in the website of	dashboard and receive a	n automated Email.
Pre-Condition	A leave request has bee	en submitted.	
Post-Condition	The user is aware of t	the request's status (e.	g., Pending, Approved,
	Rejected).		
Normal Flow or	1. A Manager approves or rejects a leave request.		
events/Basic flow	2. The System immediately updates the status of the request in the		
Happy Path	database.		
	3. The System updates the status Display in the website on the		
	employee's and manager's leave dashboards.		
	4. The System simultaneously sends an Email notification to the		
	employee with the updated status.		
Alternative Flow	1. Proactive Status Check:		
	- The Employee can log in at any time and navigate to their leave		
	dashboard to check the status without waiting for an email notification.		
Exceptions	- Email delivery may fail due to external mail server issues, but the		
	status on the website dashboard will remain the single source of truth.		
Frequency of Use	High		
Assumptions	- The email addresses in the system are correct and active.		

User Case ID	UC005		
Use Case Name	Submit Reimbursement Claim		
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025
Actor	Employee and Manage	r	
Description	Allows an employee to submit a claim for business-related expense reimbursement, including Project Name, Expense Date, Amount, and		
	Reason.		
Pre-Condition	The employee is logged	l into the platform.	
Post-Condition	An expense claim is created with "Pending" status, and the manager is notified.		
Normal Flow or	Step 1- Employee logs in and navigates to "Expense Management."		
events/Basic flow	Step 2- Employee clicks "New Claim."		
Happy Path	Step 3- Employee selects the Project Name, enters Expense Date,		
	Amount, and Reason.		
	Step 4- Employee uploads a digital receipt.		
	Step 5- Employee clicks "Submit."		
	Step 6- System creates the claim and notifies the manager.		
Alternative Flow	1. Save as Draft:		
	- The Employee can clic	k "Save as Draft" at any p	oint before submission
	to save their progress and complete the claim later.		
Exceptions	- If a required field (e.g., Amount, Receipt) is missing, the System will prevent submission and highlight the missing field.		
Frequency of Use	Moderate		
Assumptions	- The list of project names is up-to-date and available for selection.		

User Case ID	UC006		
Use Case Name	View Reimbursement Status		
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025
Actor	Employee, Finance Use	r and Manager	
Description	Allows users to track	the status of a reimb	oursement claim from
	submission to payment	via the website and Em	ail.
Pre-Condition	An expense claim has b	een submitted.	
Post-Condition	The user is aware of	the claim's status (Per	nding, Approved, Paid,
	Rejected).		
Normal Flow or	_ :	oves a claim. The status o	changes to "Approved."
events/Basic flow	Step 2- The System not		
Happy Path	Step 3- The Finance User processes payment and updates the status to "Paid."		
	Step 4- The System updates the status Display in the website on the		
	employee's dashboard.		
	Step 5- The System sends an Email notification to the employee		
	confirming payment.		
Alternative Flow	1. Claim is Rejected:		
	- A Manager or Finance User rejects the claim and provides a reason.		
	- The System updates the status to "Rejected" and notifies the		
	employee via the dashboard and email, including the reason.		
Exceptions	- If there is a delay in synchronization between Finance and the System,		
	the displayed status may temporarily show as "Processing."		
Frequency of Use	Moderate		
Assumptions	- Finance users have the necessary permissions to update claim		
	statuses to "Paid."		

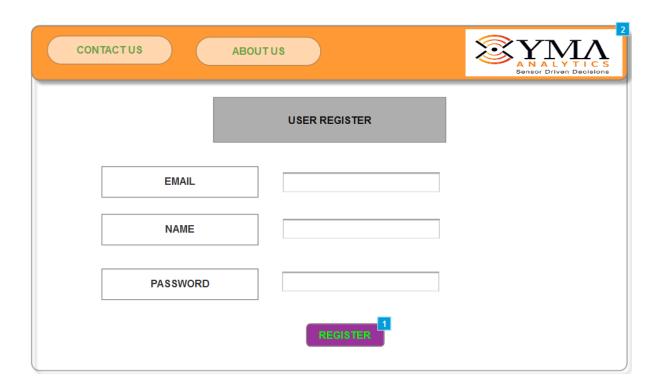
User Case ID	UC007			
Use Case Name	Create Purchase Request			
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025	
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025	
Actor	Employee and Manage	r		
Description	Allows a user to subm	it a request to procure	materials or services,	
	detailing Project Name	, Material Name, Price, a	and Reason.	
Pre-Condition	The user is logged in ar	nd has permission to crea	ate purchase requests.	
Post-Condition	A Purchase Request (PF	R) is created with "Pendir	ng Approval" status and	
	routed for approval.			
Normal Flow or	Step 1- User logs in and	I navigates to the "Procu	rement" module.	
events/Basic flow	Step 2- User clicks "Nev	w Purchase Request."		
Happy Path	Step 3- User selects the			
	•	Material Name, estimat	ed Price, and Reason.	
	Step 5- User clicks "Submit."			
	Step 6- System creates the PR and routes it for approval based on the			
	amount.			
Alternative Flow	-At Step 4 (before clicking "Submit"), the user realizes the entered			
	information (Material Name, Price, or Reason) is incorrect.			
	-The user clicks "Edit" to modify the entered details.			
		e fields and displays the		
	-	user decides not to pr	oceed, they can click	
	"Cancel" to discard the	•		
	-The system exits the "Create Purchase Request" screen and returns to			
	the Procurement Dashboard without saving the data.			
Exceptions	- If the entered price is not a valid number, the system will display an			
	error.			
Frequency of Use	Moderate			
Assumptions	- The user has accurate pricing information for the requested material.			

User Case ID	UC008			
Use Case Name	Multi-Level Purchase Approval			
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025	
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025	
Actor	Manager and Departme	ent Head		
Description	Routes a Purchase Req	uest for approval based	on whether its value is	
	Less Than 25,000 or Mo	ore than 25,000.		
Pre-Condition	A Purchase Request has	s been submitted.		
Post-Condition	The PR is routed to the	correct sequence of app	provers.	
Normal Flow or	Purchase Amount Less	Than or Equal to 25,000	:	
events/Basic flow	Step 1- The System reco	eives the submitted PR.		
Happy Path		letermines the amount	t is within the single-	
	approval limit.			
	Step 3- The System routes the request to the user's direct Manager for			
	approval.			
Alternative Flow	1. Purchase Amount More than 25,000:			
	- The System determines the amount requires multi-level approval.			
	- The System first routes the PR to the direct Manager.			
	- After the Manager approves, the System automatically forwards the			
	PR to the Department Head for final approval.			
	2. Request is Rejected:			
	· · · · · · · · · · · · · · · · · · ·	ne request and provides	a reason.	
	1	the PR status to "Reje		
	original requestor.	•		
Exceptions	- If an approver in the hierarchy is not assigned, the system will flag the			
	request for administrative review.			
Frequency of Use	High			
Assumptions	- The approval hierarchy for all users is correctly configured in the			
	system.			

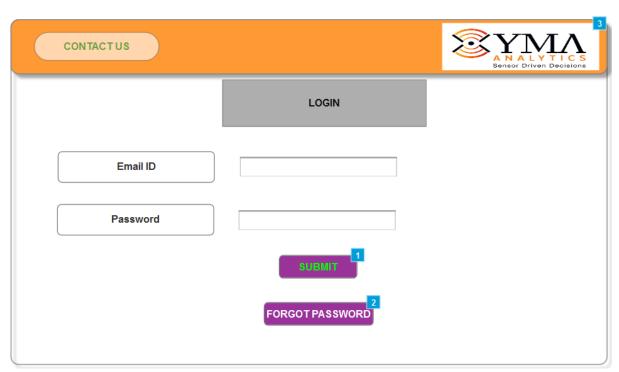
User Case ID	UC009		
Use Case Name	Track Purchase Order Status		
Created By	Mr. Iftikhaar	Last Updated By	October 9 <sup>th</sup> 2025
Date Created	September 5 <sup>th</sup> 2025	Last Revision Date	September 26 <sup>th</sup> 2025
Actor	Department User and F	Procurement Team	
Description	Allows users to track t	he status of an approve	d PR as it is converted
	into a Purchase Order	, with status updates o	n the website and via
	Email.		
Pre-Condition	A Purchase Request has	s been fully approved.	
Post-Condition	A PO is created, and its	status is visible to the re	equestor.
Normal Flow or	Step 1- A PR status bec	omes "Approved."	
events/Basic flow	Step 2- The System notifies the Procurement Team.		
Happy Path	Step 3- The Procurement Team converts the PR into a PO.		
	Step 4- The System updates the status to "PO Created."		
	Step 5- The new status is displayed on the website for the Department		
	User.		
	Step 6- The System sends an Email notification to the user with the PO		
	details.		
Alternative Flow	1. Manual Status Updates:		
	- The Procurement Team can manually update the PO status to provide		
	more detail, such as "PO Sent to Vendor" or "Awaiting Delivery."		
Exceptions	- The system could fail to send the email notification with the PO details		
	to the user due to an email service outage or incorrect email address		
Frequency of Use	High		
Assumptions	- The Procurement team has the authority to create and issue Purchase		
	Orders.		

# Document 7 – Screens and Pages

#### 1. Registration



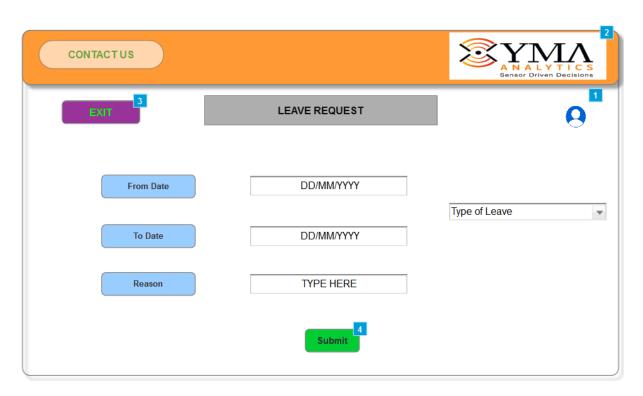
### 2. Login



### 3. Home Page



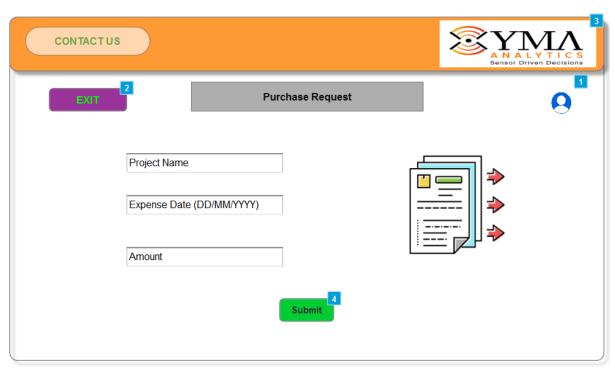
### 4. HR Page



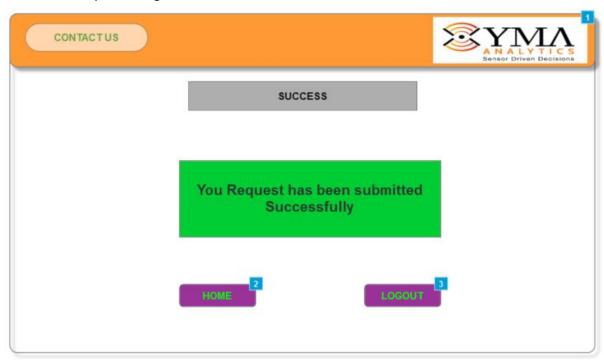
### 5. Finance Page



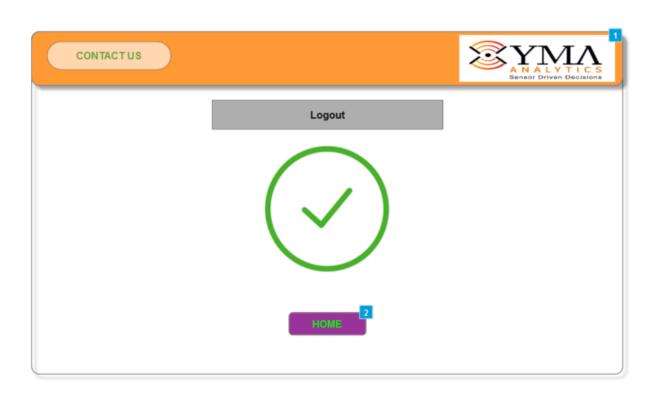
### 6. Procurement Page



## 7. Process Completion Page



#### 8. Logout Page



# Document 8 – Tools-Viso and Axure

#### Visio:

As a Business Analyst, I used Microsoft Visio to design detailed Use Case Diagrams and Activity Diagrams that clearly represented system interactions and business process flows. These visual models helped bridge the communication gap between stakeholders and the development team, ensuring everyone had a common understanding of functional requirements. Visio's intuitive interface made it easier to organize complex workflows, identify dependencies, and streamline the analysis and documentation process.

#### Axure:

I utilized Axure to develop interactive prototype web pages that provided a realistic view of the proposed system's interface and user experience. By transforming requirements into clickable prototypes, stakeholders could visualize the final product early in the project. This approach facilitated effective feedback, helped validate requirements before development, and minimized potential design and functionality issues later in the project lifecycle.

# Document 9 – BA Experience

#### 1. Requirement Gathering

- Conducted stakeholder analysis using a RASCI Matrix to define roles and responsibilities.
- Organized and led workshops, interviews, and meetings with heads of various departments, including HR, Finance, and technical teams.
- Developed wireframes to elicit and clarify more specific requirements from stakeholders.
- Prioritized all gathered requirements utilizing the MoSCoW method to manage scope and deliverables.
- Produced the Business Requirement Document (BRD) as the key deliverable for this phase.

#### 2. Requirement Analysis

- Visually mapped all departmental processes with UML diagrams to ensure a clear understanding of workflows.
- Collaborated with architects to detail functional needs and establish technical specifications.
- Compiled all requirements into a comprehensive Software Requirements Specification (SRS) document, which served as the official guide for the project.
- Created a Requirement Traceability Matrix (RTM) to monitor each requirement throughout the project lifecycle.
- Delivered the Functional Requirements Specification (FRS), Supplementary Support Document (SSD), SRS, and RTM as key documents.

#### 3. Design

- Created detailed UI/UX wireframes that incorporated all specified features.
- Defined the integration strategy for connecting different system modules such as HR and Finance.
- Authored the High-Level Design Document (HDD) and Application Design Document (ADD) to guide the development phase.

#### 4. Development

- Oversaw the frontend development of user-facing dashboards and forms.
- Guided the backend team in building the core logic for all business processes.
- Ensured the successful integration of different modules to facilitate seamless data flow across the system.
- Managed the creation of the Functional and Non-functional Requirement Document.

#### 5. Testing

- Performed comprehensive system and integration testing to confirm the platform's stability and intended functionality.
- Established a process to identify, document, and track software defects and bugs for resolution.
- Conducted regression testing to ensure that new code changes did not negatively affect existing features.
- Facilitated User Acceptance Testing (UAT) by allowing a selected group of end-users to validate the software in a real-world environment.
- Gathered and analyzed feedback on usability, functionality, and overall user experience from the UAT participants.
- Obtained formal sign-off from stakeholders, which provided the final approval for deployment.
- Key documents for this phase included the Test Cases Document and the final Sign-off Document.

#### 6. Deployment

- Managed the deployment of the application to the live server environment.
- Conducted comprehensive training sessions for all employees to ensure smooth adoption.
- Provided initial post-launch support to address any immediate user issues or questions.
- Prepared the Deployment Plan and User Guides as the primary documents for this stage.