

# CSE213 CRA Report

## Autumn 2024

Topic: <b>Simulating operations of Progoti Industries Ltd</b>		
ID: 2210411	Name: <b>Shahnaz Raihan Summy</b>	User1: <b>Employees</b>
		User2: <b>Sales Representative</b>
ID: 2210952	Name: Akhi Ketu Chakma	User4: <b>HR</b>
		User8: <b>Customer Support</b>
ID: 2210017	Name: Arik Chakma	User5: <b>Logistics Officer</b>
		User6: <b>Admin</b>
ID: 2230824	Name: Sadman Hossain	User3: <b>Inventory Manager</b>
		User7: <b>Maintenance Staff</b>

**P.T.O**

**NOTE:**

- Download this template and create a google-docs file with the following **file name format**:
  - MS1\_GroupNo\_MS1Version1\_topicKeyword\_id1\_id2\_id3\_id4
  - Ex: MS1\_Group70\_MS1Version1\_IRAS\_1234567\_2345678\_3456789\_4567890
- Group Leader will create the google-docs using this template and will share the google-docs file among group members. All of the group members need to work on the same document.
- Group leader must also upload the "viewer share" link of your google-docs file, so that the faculty can view your document anytime and check your progress (link will be given, soon).
- **ONLY ONE SUBMISSION from EACH GROUP**
- **To lock your content, you MUST upload a PDF file. NO LINK will be accepted.**
  - **By 19-October-24, Saturday, the group leader MUST upload the PDF of your google-docs containing workflows for ALL 64 goals.**
  - **Among 64 workflows (of the goals) for 8 users, 16 workflows (4 workflows per member), MUST look complete and comprehensive.**
  - **Submission Link will be given before the deadline.**
- **If you fail to submit version-1 of your MileStone-1 by 19-October-24, you will not get any mark for MileStone-1**

### **Possible event type:**

- UIE - - user input to trigger event
- UID - - user input to be considered as data
- OP – display content (output)
- VL – validation check
- VR – verification check
- DP – fetching data from file system and process it to get some calculated outcome (data processing)
- WF – writing data to the file system.

**NOTE:**

there can be workflows for common **processes** as follows (**BUT, these are NOT GOALS**):

Process-1: Login			
			event type
Workflow:	event-1	User put their ID and password in the respective text fields and trigger login.	UID
	event-2	Validate the ID and Password <ul style="list-style-type: none"><li>- ID has to be more than 4 digits</li><li>- Password length has to be at least 8, contains a special character, and one digit.</li></ul>	VL
	event-3	Fetch all users and get the matching user with the ID, if we find the user move to the next step otherwise show an error alert.	DP
	event-4	Verify the password and if not true show an error alert	VR
	event-5	If the login is verified show the Layout view, associated menus, and hide unrelated menus.	OP

Process-2: Log Out			
			event type
Workflow:	event-1	Click the user name menu and then Sign out menu item	UIE
	event-2	It will switch the scene to the login view	OP

## Workflow of user-specific goals:

User-5 name: Logistic Officer			
User-5, Goal-1	Description of Goal-1: Update Password		event type
Workflow:	event-1	Process-1 for Login	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Click Update Password Menu, and update the scene	UIE, OP
	event-4	Fill out the form with your current password, and new password, and confirm the new password	UID
	event-5	Click Update Password	UIE
	event-6	Validate the informations <ol style="list-style-type: none"> <li>1. New Password and the Confirm New Password have to be the same</li> <li>2. New Password must contain at least one digit and one special character and 8 characters long.</li> <li>3. The old password has to match the current password.</li> </ol> if: move to next step else: show an error alert	VL, VR
	event-7	Update the password and update the user in the file	WF
	event-8	Show success/error alert.	OP
User-5, Goal-2	Description of Goal-2: Apply for Leave		
Workflow:	event-1	Process-1 for Login	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Click Apply for Leave Menu, and update the scene	UIE, OP
	event-4	Fill out the form, add the attachment using the Select	UIE

		File, and click “validate and apply for leave” to submit	
	event-5	Validate the following data <ol style="list-style-type: none"> <li>1. The start date can’t be after the end date</li> <li>2. Don’t have a pending leave application</li> <li>3. Don’t have leave application on the same dates</li> <li>4. The yearly leave count has to be less than 10</li> </ol> if: move to next event else: show an error alert	VL, OP
	event-6	Create and save the leave information in the file.	WF
	event-7	Show an error/success alert.	OP
<b>User-5, Goal-3</b>	<b>Description of Goal-3: Schedule Vehicle Dispatch</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Click Schedule Vehicle Dispatch Menu, and update the scene	UIE, OP
	event-4	Populate all fields in the dispatch form with appropriate data, and submit the form	UIE
	event-5	Validate the following data <ol style="list-style-type: none"> <li>1. The dispatch date can’t be after the estimated arrival date</li> <li>2. The driver can’t be already in a dispatched status vehicle</li> </ol> if: move to next event else: show an error alert	VL, OP
	event-6	Create and save the dispatch information in the file, also update the vehicle status to “Scheduled”.	WF
	event-7	Show an error/success alert.	OP
<b>User-5, Goal-4</b>	<b>Description of Goal-4: Update Dispatch Vehicle Info</b>		

Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Select Update Dispatch Info Menu, and update the scene	UIE, OP
	event-4	Select the dispatch ID you want to update	UIE
	event-5	On Select, it will populate the fields and labels (if there are any)	DP
	event-6	Update the fields you want to update and click Update and Save to submit.	UIE
	event-7	Validate the following data <ol style="list-style-type: none"> <li>1. The dispatch date can't be after the estimated arrival date</li> <li>2. The driver can't be already in a dispatched status vehicle</li> </ol> if: move to next event else: show an error alert	VL, OP
	event-8	Update the fields of the dispatch info and save it to the file	WF
	event-9	Show an error/success alert.	OP
<b>User-5, Goal-5</b>	<b>Description of Goal-5: Check Vehicle Status Distribution by Model</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Click Vehicle Status Distribution, and update the scene	UIE, OP
	event-4	Select the brand and click Check status distribution	UIE
	event-5	Retrieve the vehicle data from the file system, filter them by their brand name, and prepare the series data for the bar chart	DP, OP
<b>User-5, Goal-6</b>	<b>Description of Goal-6: Cancel Vehicle Dispatch</b>		

Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Click Cancel Vehicle Dispatch, and update the scene	UIE, OP
	event-4	Retrieve the data and filter out the delivered data.	DP
	event-5	Select the scheduled vehicle dispatch that you want to cancel, and click the Cancel Vehicle Dispatch button	UIE
	event-6	Read the info, update its status to "Cancelled" and then save the data to file.	DP, WF
	event-7	Show success/error alert	OP
<b>User-5, Goal-7</b>	<b>Description of Goal-7: Remove Driver</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE
	event-3	Click Remove Driver, and update the scene	UIE, OP
	event-4	Select the driver you want to remove and click Remove Driver	
	event-5	Validate the following: <ol style="list-style-type: none"> <li>1. The driver is not already delivering an order</li> <li>2. Has no assigned dispatch order</li> </ol> if: move to next event else: show an error alert	VL, VR
	event-6	Delete the driver and update the file in the file system	WF
	event-7	Show an error/success alert	OP
<b>User-5, Goal-8</b>	<b>Description of Goal-8: Driver Dispatch Status distribution</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Logistic Officer Menu from the Menu Bar	UIE

	event-3	Click Dispatch Status Distribution, and update the scene	UIE, OP
	event-4	Select the driver and click the check status distribution button	UIE
	event-5	Retrieve Dispatch Info and filter them by the driver ID and prepare the Pie Chart	DP
	event-6	Show the Pie Chart with the values	OP



User-6 name: <b>Admin</b>			
User-6, Goal-1	Description of Goal-1: <b>Create a New User</b>		event type
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Create User Menu item	UIE
	event-4	Switch to the create user view scene	OP
	event-5	Fill out the form, select the appropriate values, and submit the form.	UID
	event-6	Validate the informations  1. All of the required fields are filled 2. The email contains @ and dot(.) 3. User ID is at least 4 digits, check if any user with the same ID already exists 4. Salary has to be more than 10,000 5. Validate the Password  if: everything is validated and correct, move to the next step. else: show an alert of the particular error.	VL, DP, OP
	event-7	Create a user based on their Designation and save it to the file system.	WF
	event-8	Show an alert based on the status (success/error).	OP
User-6, Goal-2	Description of Goal-2: <b>Delete User</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Delete User Menu Item	UIE
	event-4	Select the User you want to delete	UIE
	event-5	Click the Delete User button	OP

	event-6	Check if the user is trying to delete themselves, then show an error alert.	VL, OP
	event-7	Delete the selected User and update the file if successful, otherwise show an error alert.	WF, OP
	event-8	Refresh the combo box select items and remove the deleted user from the list.	OP
<b>User-6, Goal-3</b>	<b>Description of Goal-3: Disable User Temporarily</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Disable User Menu Item and Change the scene.	UIE, OP
	event-4	Read all of the users from the File System and filter out already disabled users.	DP
	event-5	Select the users you want to disable	UIE
	event-6	Click the Disabled User button	UIE
	event-7	Check if the user is trying to disable itself, and show an error alert if true.	VL, OP
	event-8	Get the selected user from the file system, check if exists or not, and show an error if not.	DP, VF, OP
	event-9	Set the user's status to "inactive", then update, and save the user to the file system.	WF
	event-10	Show success/error alert based on the result.	OP
<b>User-6, Goal-4</b>	<b>Description of Goal-4: Update User Information</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Update User Menu item and Switch the scene.	UIE, OP
	event-4	Load the users and populate the Select ID combo box.	DP

	event-5	Select the user's ID you want to update, on select it will populate the form fields or update labels.	UIE, OP
	event-6	Update the values you want, then click the Validate & Update User Information button.	UIE
	event-6	<p>Validate the informations</p> <ol style="list-style-type: none"> <li>1. All of the required fields are filled</li> <li>2. The email contains @ and dot(.)</li> <li>3. Salary has to be more than 10,000</li> <li>4. Validate the Password</li> </ol> <p>if: everything is validated and correct, move to the next step. else: show an alert of the particular error.</p>	VL, DP, OP
	event-7	Update and save the user in the file system and show a successful/error alert.	WF, OP
<b>User-6, Goal-5</b>	<b>Description of Goal-5: Monitor User Activity</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the View User Activity Menu Item and Change the scene.	UIE, OP
	event-4	Load users from the File System and populate the select user combo box	DP
	event-5	Select any user and click Check Logs	UIE
	event-6	Populate the Table with the selected user's logs	OP
<b>User-6, Goal-6</b>	<b>Description of Goal-6: Reactivate Disabled Users</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Reactive User Menu Item and Change the scene.	UIE, OP
	event-4	Read all of the users from the File System and filter out already active users.	DP

	event-5	Select the user you want reactive, and click the Reactive User button	UIE
	event-6	Get the selected User from the File system and validate, if not show an alert	VL
	event-7	Update the user's status to "active", then update and save the user to the file system.	WF
	event-8	Show the successful/error alert.	OP
<b>User-6, Goal-7</b>	<b>Description of Goal-7: Analyze Gender Distribution</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Analyze Gender Distribution Menu Item and Change the scene.	UIE, OP
	event-4	Click the Show Pie Chart button	UIE
	event-5	Read all of the users from the File System and prepare the distribution Pie Chart data.	DP, OP
<b>User-6, Goal-8</b>	<b>Description of Goal-8: Department-Wise Employee Active/Inactive Distribution</b>		
Workflow:	event-1	<b>Process-1 for Login</b>	
	event-2	Click the Admin Menu from the Menu Bar	UIE
	event-3	Click the Department-Wise Employee Active/Inactive Distribution Menu Item and Change the scene.	UIE, OP
	event-4	Click the Show Chart button	UIE
	event-5	Read all of the users from the File System and prepare the distribution Bar Chart series data.	DP, OP