IndusTree - Factory Management Platform

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Project Title: IndusTree (Factory Management Platform)

Requirements:

ID	Requirement	Topic Area	User
UR – 001	Users logs into the application	Authentication	All
UR – 006(a)	Users can view their machine line status	Line Status	Factory Line Employee
UR – 006(b)	Users can view machine line statuses of all lines	Line Status	Factory Supervisor
UR – 011	Users can request for stock	Line Status	Factory Supervisor
UR – 012	Users can sign out	Authentication	All
UR – 013	Users can reset their passwords	Authentication	All

Use Case Documents:

Use Case ID	UR-001
Use Case Name	User logs into the application
Description	User logs into the application by providing their username (email-ID) and password.

Actors	All Affiliates		
Pre-conditions	User should have an existing profile with a riomhare.com email-ID as a username.		
Post-conditions	Login Successful: The Employee homepage window is displayed. Users can now view their details and logs.		
Frequency of Use	Daily		
Flow of Events	S.No	Actor Action	System Response
	1	Visit the login page.	The username and password fields get displayed for entry.
	2	Enter their credentials and click on the Log-in button.	The system authenticates the user based on information provided by them and lets the user access the Employee homepage on a successful login.
Exceptions	An error message is displayed if the user's credentials are not authenticated or if mandatory fields are left blank.		
Notes and Issues			
Developer Notes			

Use Case ID	UR-006(a)
Use Case Name	Users can view their machine line status
Description	Users can view the status of all the lines administered/operated by their, the Item ID of the units currently processing and the stock quantity of a type.

Actors	Factory Line Employee		
Pre-conditions	User must be logged in.		
Post-conditions	User can view their detailed machine line status.		
Frequency of Use	Frequently		
Flow of Events	**S.No**	**Actor Action**	**System Response**
	1.	User visits the Employee homepage and clicks on the My Lines link.	The system redirects the user to a page where they can view the functional status of the line, the Item ID of the units currently processing and the stock quantity of the machine type.
Exceptions			
Notes and Issues			
Developer Notes			

Use Case ID	UR-006(b)
Use Case Name	Users can view the machine line status of all the lines.
Description	Users can view the status of all the lines, the Item ID of the units currently processing and the stock quantity of a type.

Actors	Factory Supervisor		
Pre-conditions	User must be logged in as a Factory Supervisor.		
Post-conditions	User can view the detailed machine line status of all lines.		
Frequency of Use	Frequently		
Flow of Events	S.No	Actor Action	System Response
	1.	User visits the Employee homepage and clicks on the Line Statuses link.	The system redirects the user to a page where they can view, for all the lines, the functional status of the lines, the Item ID of the units currently processing and the stock quantity of the machine type.
Exceptions			
Notes and Issues			
Developer Notes			

Use Case ID	UR-011
Use Case Name	Users can request for stock.
Description	Users can request for any stock to be replenished in the selected machine

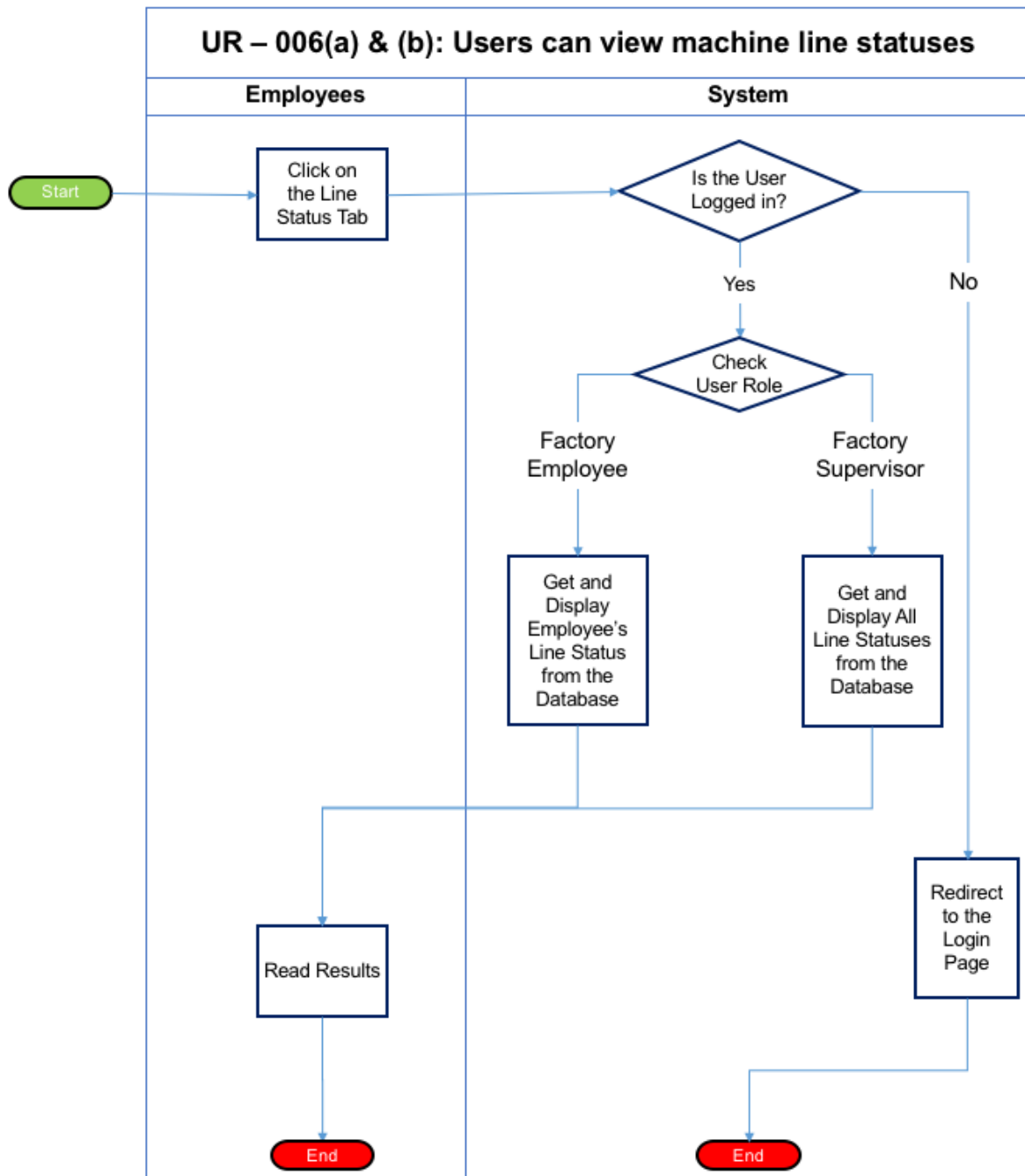| Actors	Factory Supervisor		
Pre-conditions	User must be logged in as a Factory Supervisor.		
Post-conditions	The user's request for stock is logged		
Frequency of Use	Frequently		
Flow of Events	**S.No**	**Actor Action**	**System Response**
	1.	Click on the Line Statuses link.	The system displays the status of all the lines (whether working, malfunction, stock-off or low), their Line manager, the Item ID of the units currently processing and the stock quantity of a type.
	2.	Click the corresponding Request Stock link.	The system redirects the user to a page where they can enter the details of the unit to be re-stocked.
	3.	Click Submit Request button.	The system validates the details provided by the user and notifies the supply room about the requested stock on a successful submission of the appeal. The request is logged in the database.
Exceptions	When mandatory fields are left vacant, an error message is displayed.		
Notes and Issues			
Developer Notes			

Use Case ID	UR-012
Use Case Name	Users can sign out
Description	Users can sign out their session by clicking on the Sign Out link

Actors	Riomhaire Affiliates		
Pre-conditions	User must be logged in		
Post-conditions	User is redirected to the login page.		
Frequency of Use	Rarely		
Flow of Events	S.No	Actor Action	System Response
	1.	User clicks on the Sign Out link.	The system ends the user's active session and redirects the user to the Login page.
Exceptions			
Notes and Issues			
Developer Notes			

Use Case ID	UR-013
Use Case Name	Users can reset their password
Description	Users are emailed a link to reset a forgotten password

Actors	Riomhaire Affiliates		
Pre-conditions	User should have a valid riomhaire.com email ID for the reset password link to be sent		
Post-conditions	User is sent a link to reset their password		
Frequency of Use	Rarely		
Flow of Events	S.No	Actor Action	System Response
	1.	Click the Forgot Password link.	The system redirects the user to a page where they can enter their email-ID. The system validates the email and sends a link to the email provided for resetting the password.
	2.	Click the reset password link in the received email.	The system redirects the user to a window where they can update their new password.
	3.	Click the Submit button.	The system validates that whether the password has been entered twice and that they match. The system updates the user's password in the database to the newly entered password. The system now redirects the user to the login page again.
Exceptions	When mandatory fields are vacant, an error message is displayed.		
Notes and Issues			
Developer Notes			

Activity Diagram:

UR – 006(a) & (b): Users can view machine line statuses

Employees	System

Start

Click on the Line Status Tab

Is the User Logged in?

Yes → / No →

Check User Role

Factory Employee

Factory Supervisor

Get and Display Employee's Line Status from the Database

Get and Display All Line Statuses from the Database

Redirect to the Login Page

Read Results

End

End

User Interaction Diagram:

UR – 006(a) & (b): Users can view machine line statuses