

VKC MANAGEMENT DIAGRAMS

Project presented by The Blue Team

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Client:

VKC Packaging

We, the Blue Team, guarantee that We have **not** used any previous work in this deliverable.

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Written for:

Computer Science Technology,
Vanier College:

- 420-411-VA ECOMMERCE
- 420-436-VA SYSTEM DEVELOPMENT

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UMLs Diagrams and User Stories

Appendix 1: User stories

Title: User Login
User Story: As a user I want to be able to enter my email/username and password So that I can access my account.

Title: Account Creation

User Story:

As an admin

I want to be able to create accounts for new employees

So that new employees can have an account and log in their work..

Title: Employee Account

User Story:

As an employee

I want to access my employee account

So that I can access my personal information and log in my work.

Title: Admin Account

User Story:

As an admin

I want have an admin account

So that I can access employee data and our production data.

Title: Tracking production

User Story:

As an admin

I want to be able to track our hourly/daily/monthly production

So that I can inform my client and know our progress.

Title: Update personal information

User Story:

As an employee

I want to update my personal information

So that I can change anything that has changed since I started working in the company
(address, phone number, ...).

Title: Log in work

User Story:

As an employee

I want to enter my station's production data

So that my employer can track production.

Title: Change password

User Story:

As a user

I want to be able to update my password

So that I can login using a new password.

Title: Forgotten password

User Story:

As a user

I want to login even if I forget my password

So that I can continue working even if I forget my login information.

Title: Production Overview
<p>User Story:</p> <p>As an admin</p> <p>I want to be able to pull out my phone and check our daily/wekkly/monthly production So that I can quickly know how production is going and pull out the information quickly. It's for my own knowledge and to inform the client as well.</p>

Title: Tracking Batches
<p>User Story:</p> <p>As an admin</p> <p>I want to track each batch with a unique code, assigned team, start/finish time, client, and pod color So that I have full traceability of production batches.</p>

Title: Track KPI
<p>User Story:</p> <p>As an admin</p> <p>I want to track key performance indicators like units/hour per team, cost/unit, and performance benchmarks So that I can identify trends, verify which teams are producing less than the required minimum, and manage efficiency.</p>

Appendix 2: Gherkin Syntax

Gherkin Syntax: User Login

Feature: User Logging in

#Scenario for user successfully enters login information

Scenario: user successfully enters login information

Given an user has an account assigned to him

When the user enters his username/email and password

And the user submits the login form

And the username/email and password are correct

Then the user should be redirected to the 2FA page

And the user should receive a 2FA code

#Scenario for user successfully completes 2FA page

Scenario: user successfully completes 2FA page

Given an user has been redirected to the 2FA page

When the user enters his 2FA code

And the 2FA code is correct

Then the user should be redirected to the user dashboard

Gherkin Syntax: Account Creation

Feature: Admin Account Creation

#Scenario for admin creating employee account

Scenario: admin creates new employee account

Given an admin is logged into the system

When the admin navigates to the account creation section

And enters employee details (username, email, password)

And submits the form
Then the system should create a new employee account
And confirm account creation to the admin

Gherkin Syntax: Employee Account

Feature: Employee Account Access

#Scenario for employee accessing account

Scenario: employee accesses personal account

Given an employee is logged into the system

When the employee navigates to the account dashboard

Then the system should display the employee's personal information

And provide options for logging work and updating details.

Gherkin Syntax: Admin Account

Feature: Admin Account Access

#Scenario for admin accessing admin account

Scenario: admin accesses admin dashboard

Given an admin is logged into the system

When the admin navigates to the admin dashboard

Then the system should display the employee's personal information

And the system should display employee data and production data.

Gherkin Syntax: Updating personal information

Feature: Updating personal information

#Scenario for employee updating personal info

Scenario: employee updates personal information

Given an employee is logged into the system

When the employee navigates to the personal information page

And edits their email and phone number

And saves the changes

Then the system should update the employee's personal information
And confirm that the update was successful

Gherkin Syntax: Logging production work

Feature: Logging production work

#Scenario for employee submitting station's production data

Scenario: employee submits station production data

Given an employee is logged into the system

When the employee navigates to the work log page

And enters the station's production data

And submits the data

Then the system should save the production data

And the admin should be able to view the new entry

Gherkin Syntax: Changing password

Feature: Changing password

#Scenario for user successfully changing password

Scenario: user changes password successfully

Given a user is logged into the system

When the user navigates to the change password page

And enters the current password

And enters a new password

And confirms the new password

And submits the change

Then the system should update the password

And the user should be able to log in using the new password

Gherkin Syntax: Forgotten password recovery

Feature: Forgotten password recovery

#Scenario for user successfully recovering password

Scenario: user resets forgotten password

Given a user has forgotten their password

When the user navigates to the password recovery page

And enters their registered email address

And submits the request

Then the system should send a password reset link to the user's email

And the user should be able to create a new password using the link

Gherkin Syntax: Production overview

Feature: Production overview

#Scenario for admin checking daily production

Scenario: admin checks daily production

Given an admin is logged into the system on their phone

When the admin navigates to the production overview page

And selects the daily option

Then the system should display the daily production data

And the admin should be able to share or export the report

#Scenario for admin checking weekly production

Scenario: admin checks weekly production

Given an admin is logged into the system on their phone

When the admin navigates to the production overview page

And selects the weekly option

Then the system should display the weekly production data

And the admin should be able to share or export the report

#Scenario for admin checking monthly production

Scenario: admin checks monthly production

Given an admin is logged into the system on their phone

When the admin navigates to the production overview page

And selects the monthly option

Then the system should display the monthly production data

And the admin should be able to share or export the report

Gherkin Syntax: Tracking production batches

Feature: Tracking production batches

#Scenario: users complete a batch

Scenario: users complete a batch and record finish time

Given a batch with a unique code is "In Progress"

When the admin marks the batch as complete

Then the system should record the finish time

And calculate total duration

And link the final quantity and quality checks to the batch

#Scenario: traceability lookup

Scenario: admin searches for a batch by unique code

Given multiple batches exist

When the admin searches by the batch's unique code

Then the system should display the batch details

And show assigned team, client, pod color, start/finish time, and station

history

Gherkin Syntax: Tracking KPIs for production performance

Feature: Tracking KPIs for production performance

#Scenario: admin views KPI dashboard

Scenario: admin views KPI dashboard

Given an admin is logged into the system

When the admin opens the KPI dashboard

And selects a time range (daily, weekly, monthly)

Then the system should display units per hour per team, cost per unit, and

benchmarks

And highlight teams below the required minimum performance

#Scenario: benchmark alerting

Scenario: system flags underperforming teams

Given KPI benchmarks are configured

And current team performance is below the required minimum

When the KPI dashboard is refreshed or scheduled KPI job runs

Then the system should flag the teams as "Below Benchmark"

And notify the admin with a summary of affected teams

#Scenario: export KPI report

Scenario: admin exports KPI report

Given an admin is viewing the KPI dashboard

When the admin selects "Export"

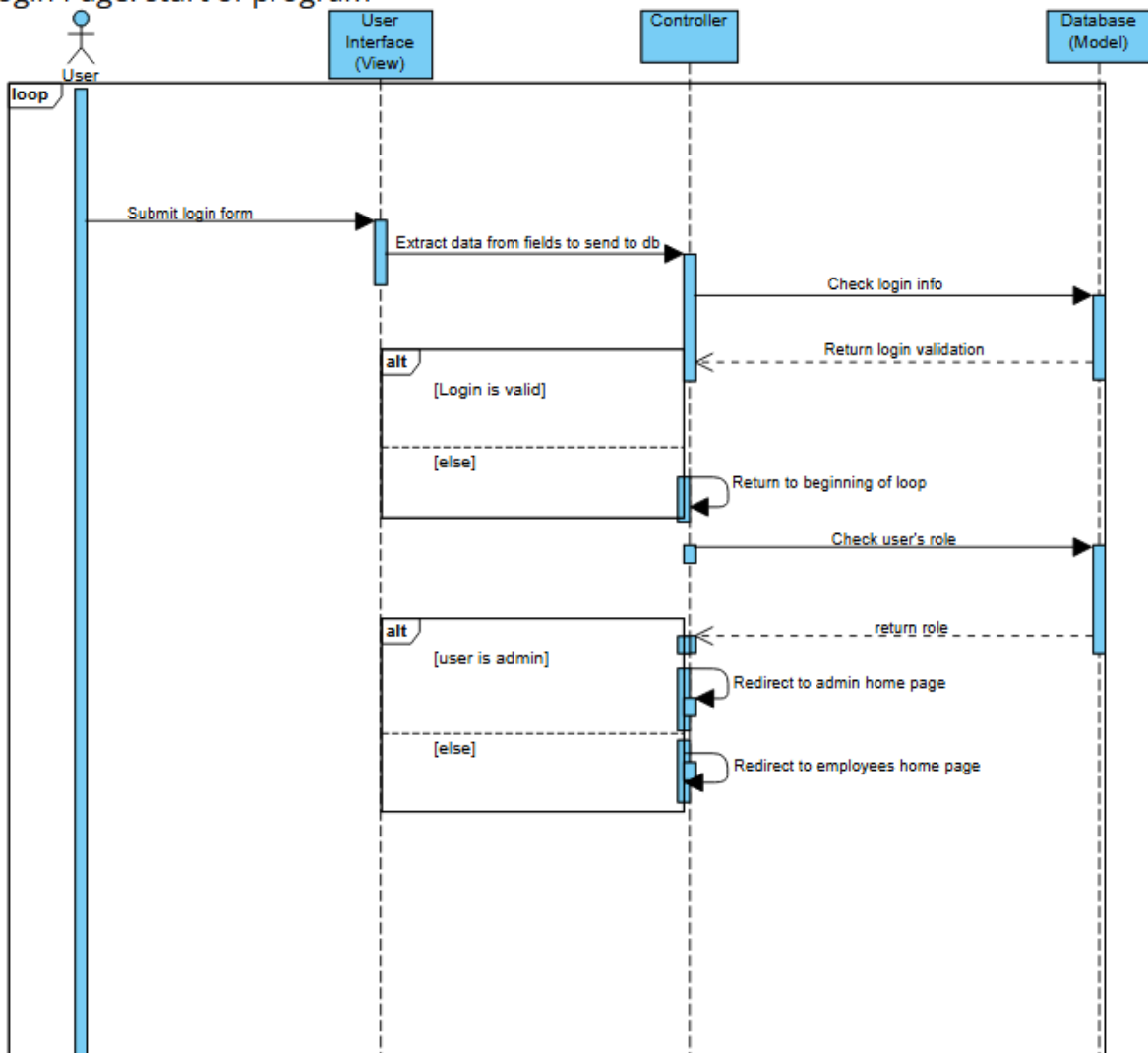
And chooses a format (PDF or CSV)

Then the system should generate the KPI report for the selected time range

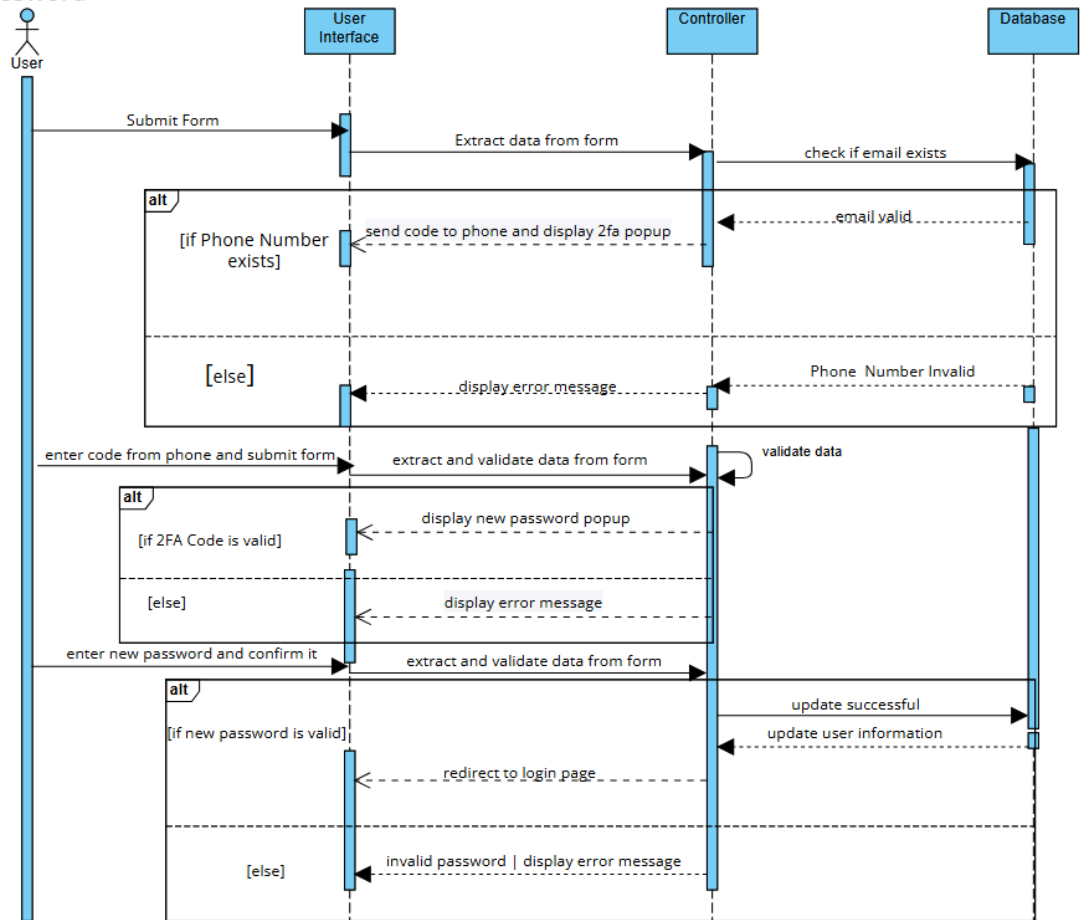
And make the report available for download and sharing

Appendix 3: Sequence Diagrams:

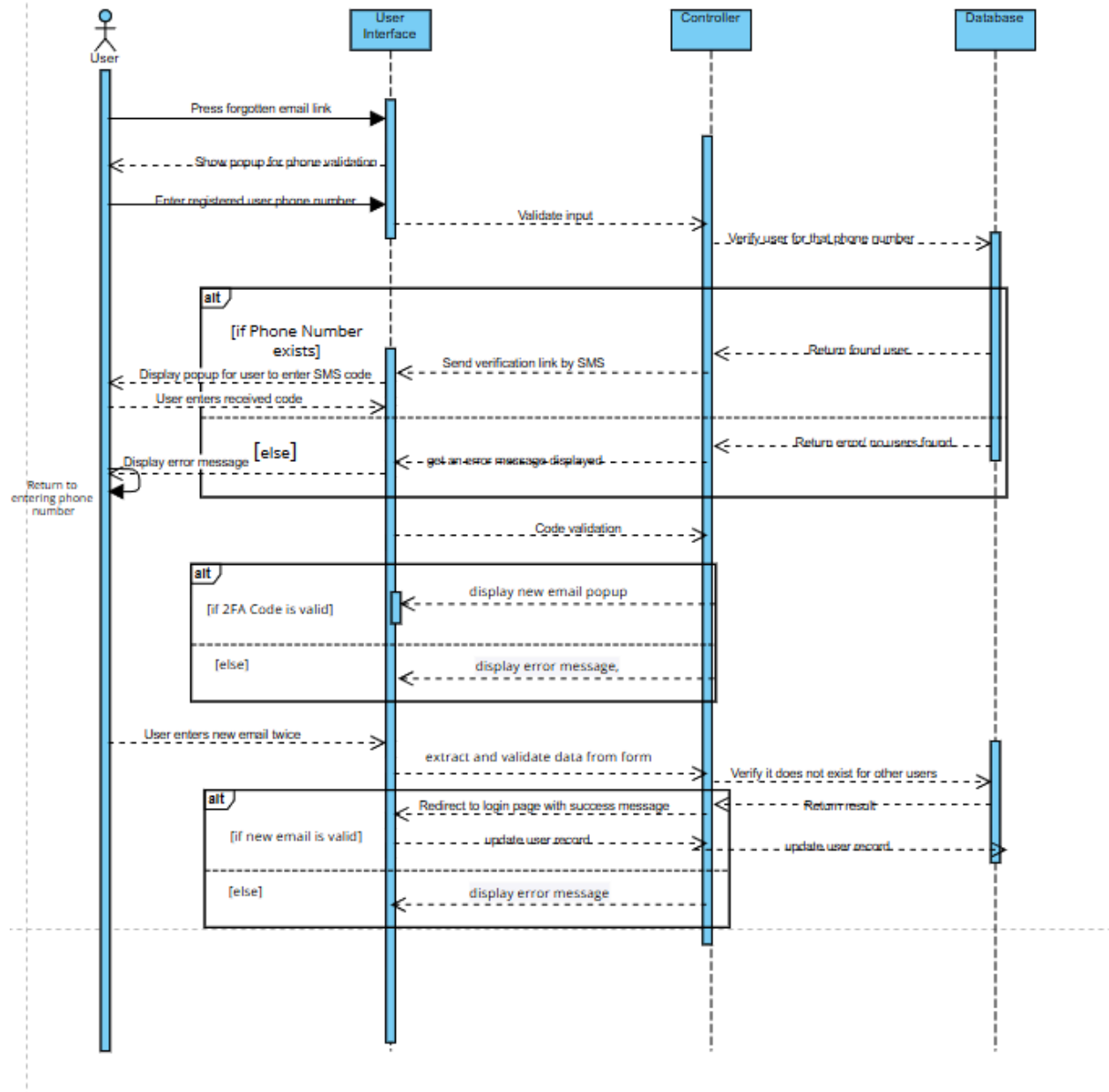
Login Page: start of program



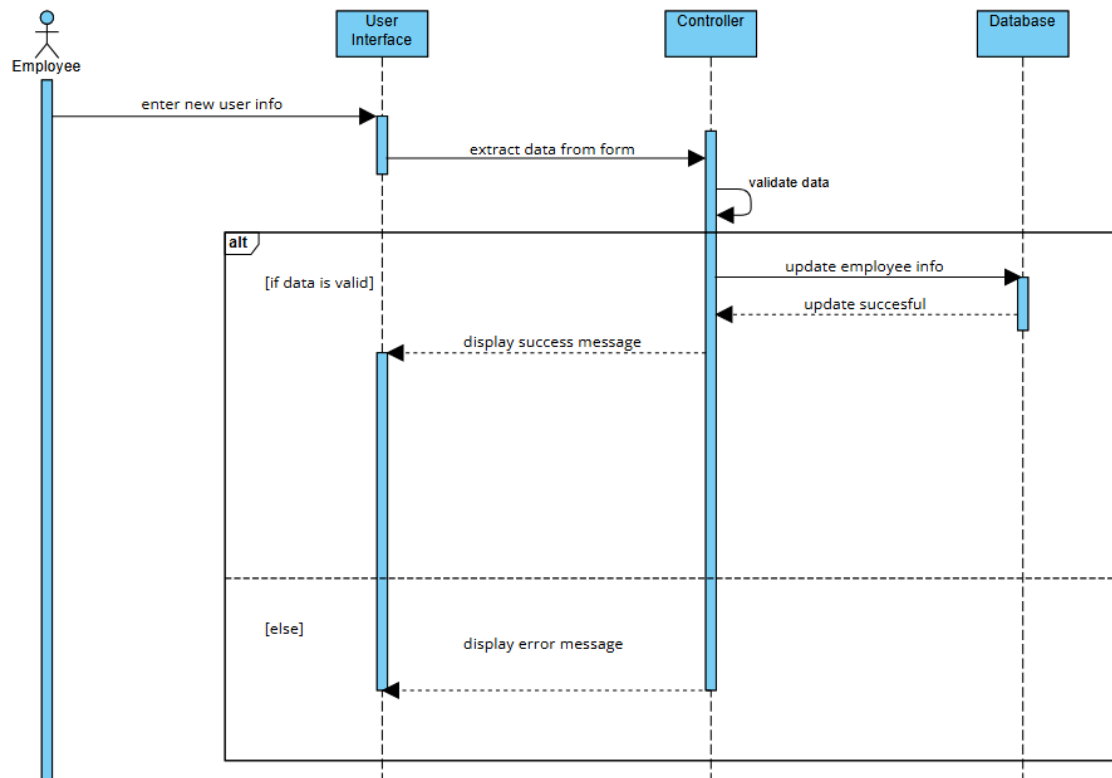
Forgotten Password



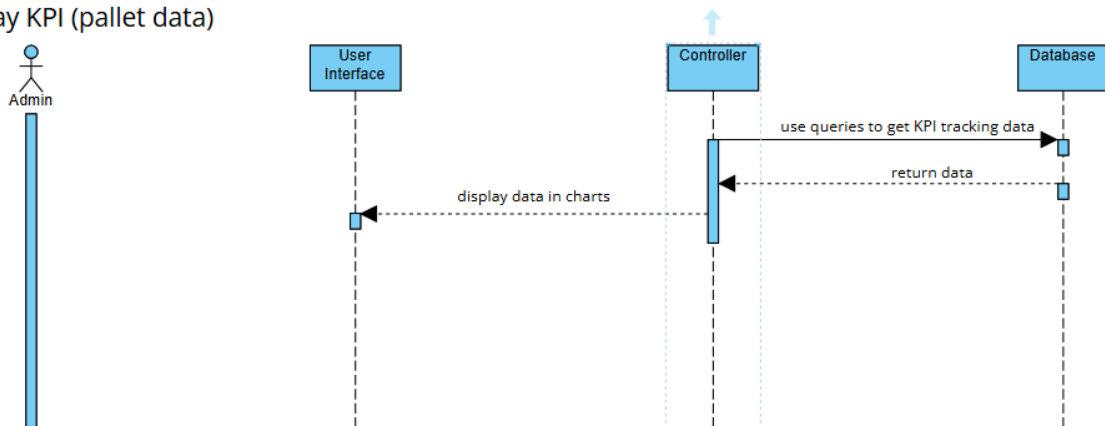
Forgot email



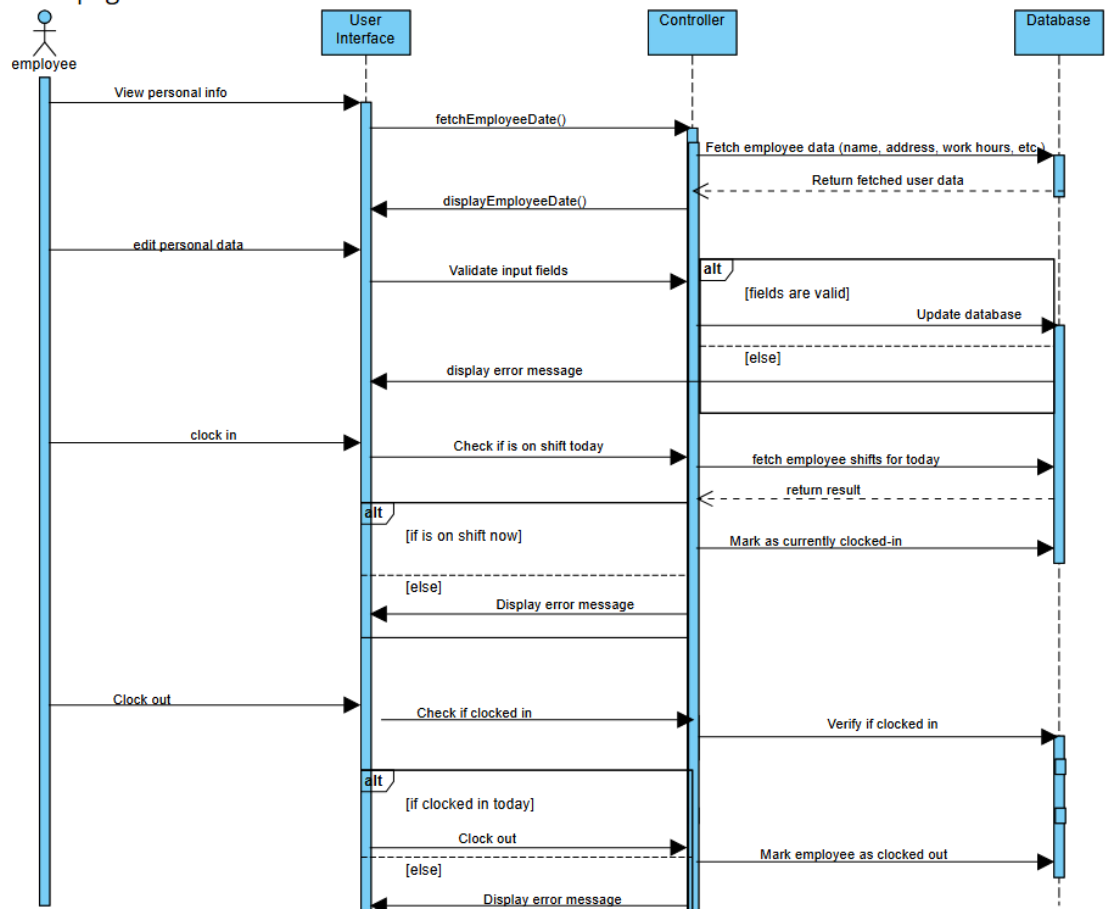
Update User information



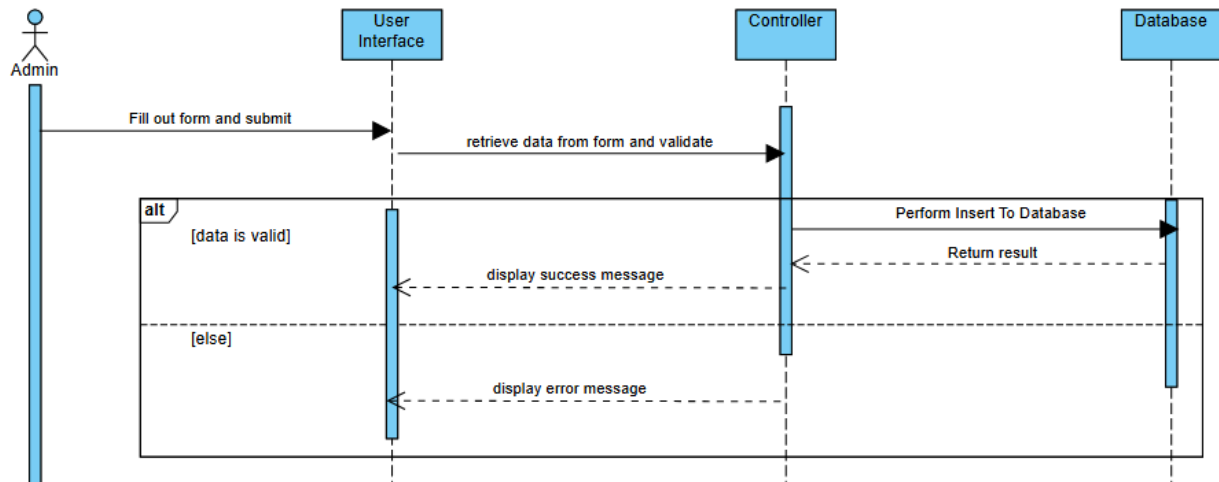
Display KPI (pallet data)



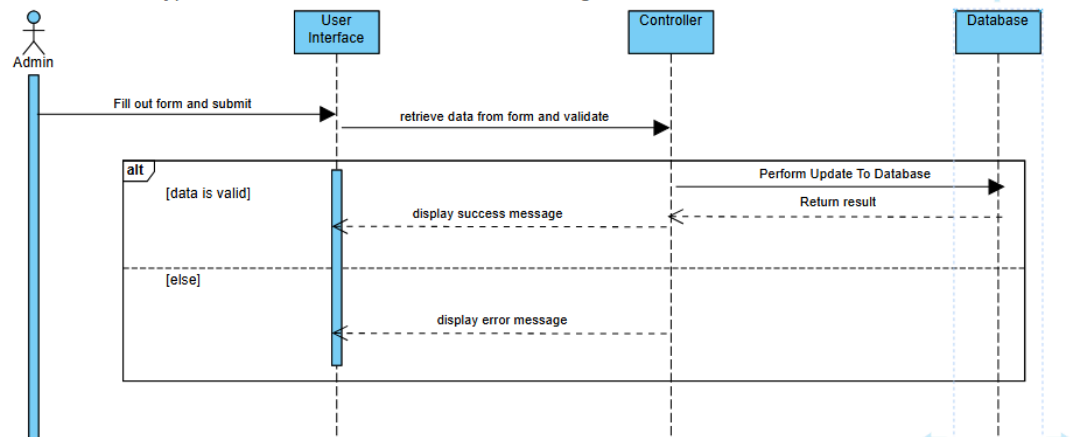
Employee Home page



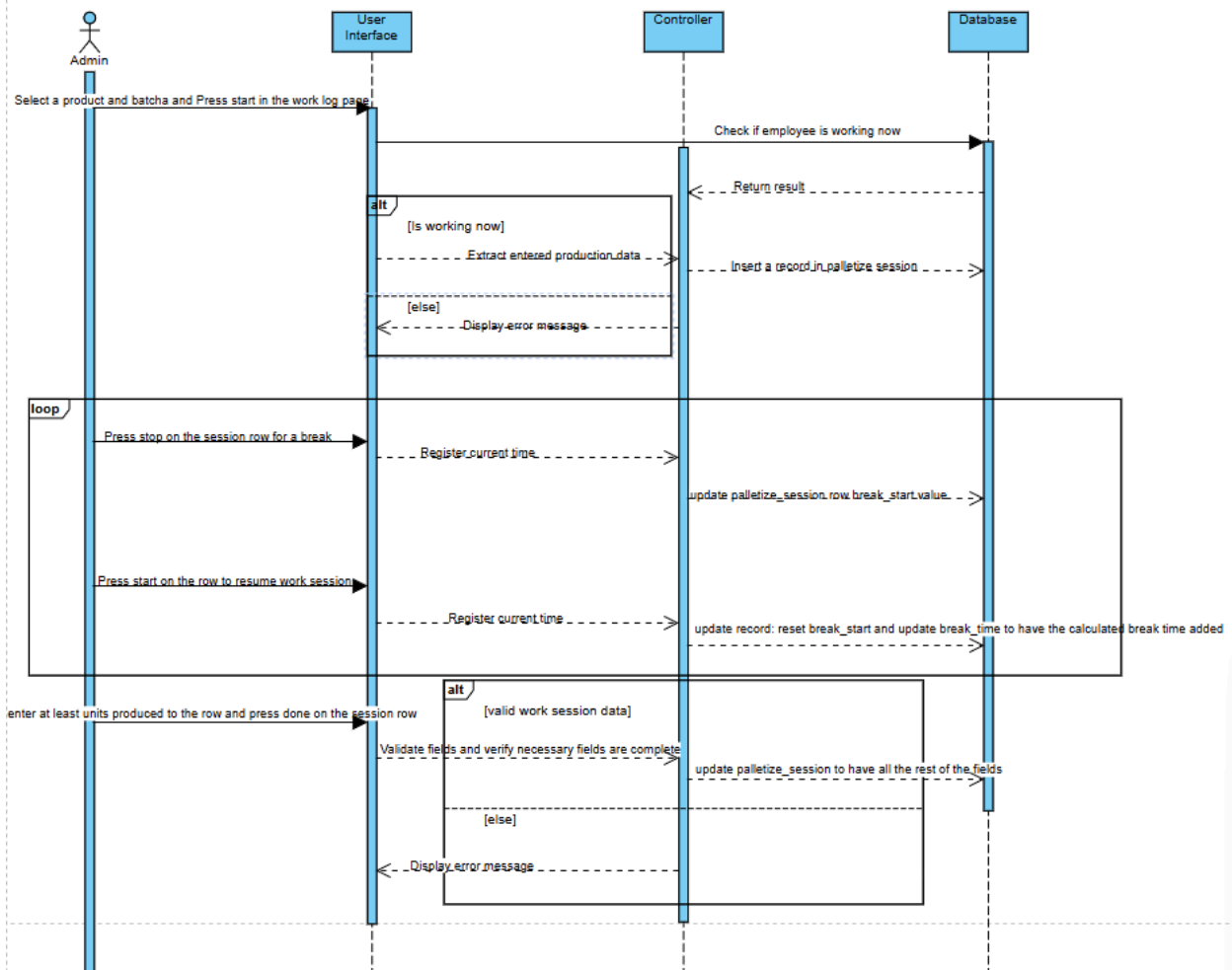
Create (Product, Product Type, Product Variant, Colour In Admin Page



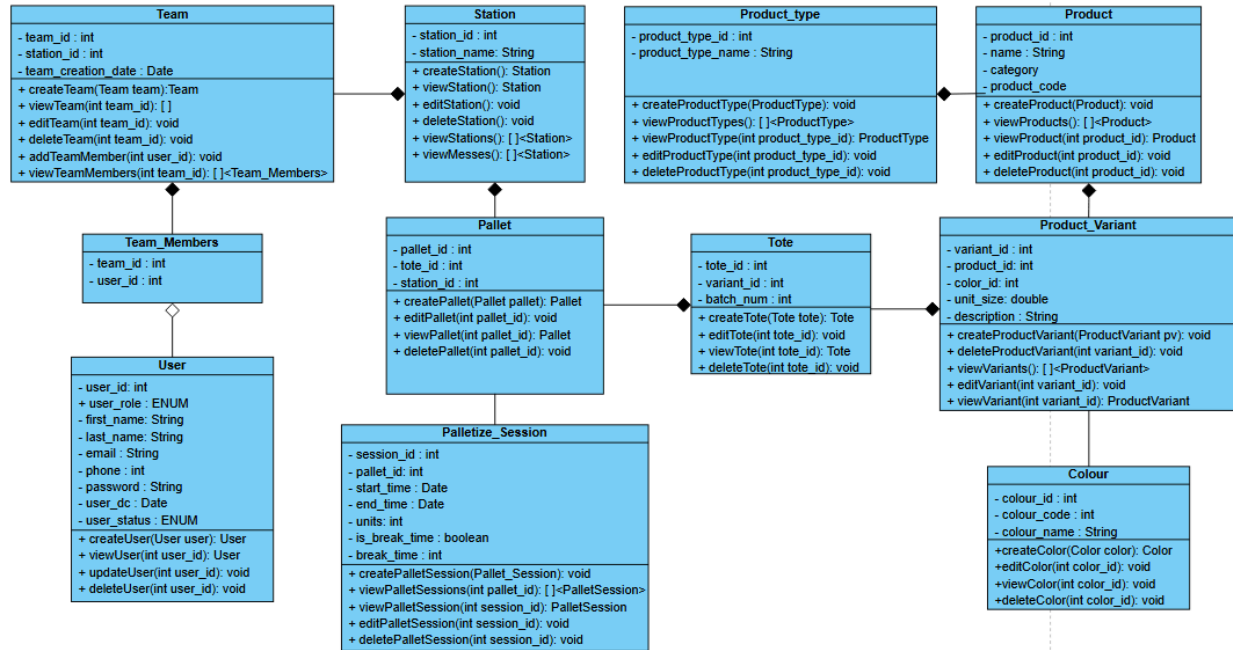
Edit/Update (Product, Product Type, Product Variant, Colour In Admin Page



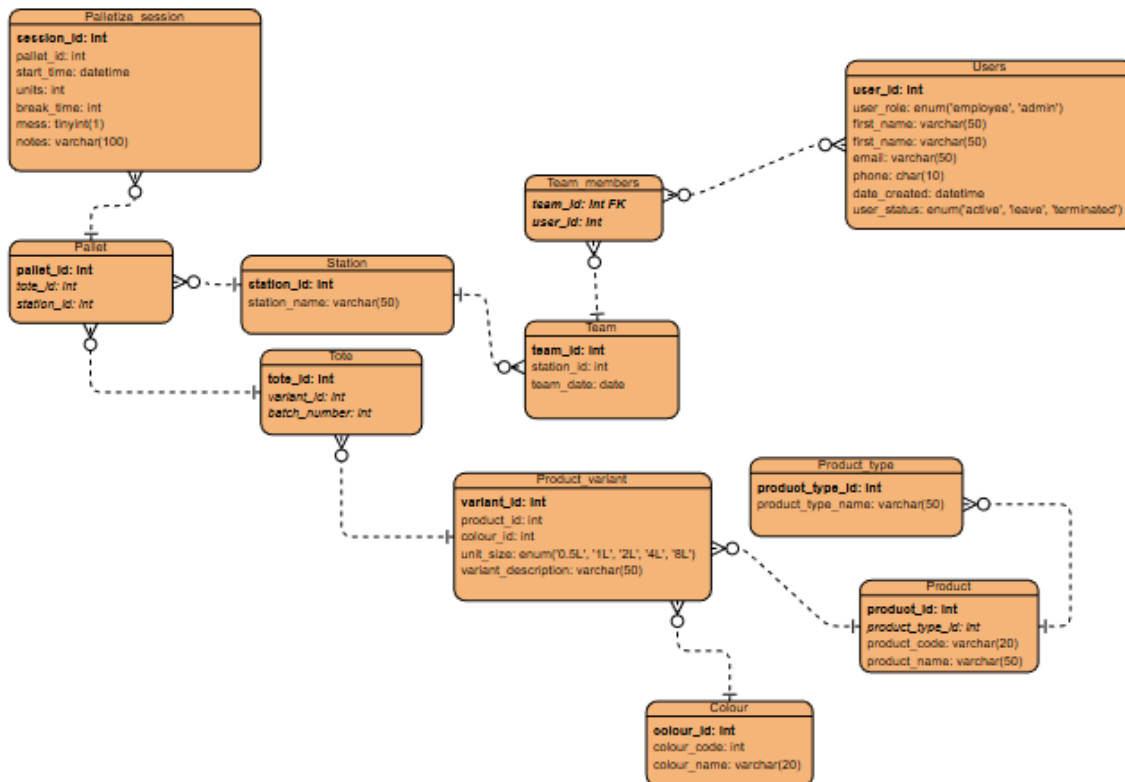
Log in production work section



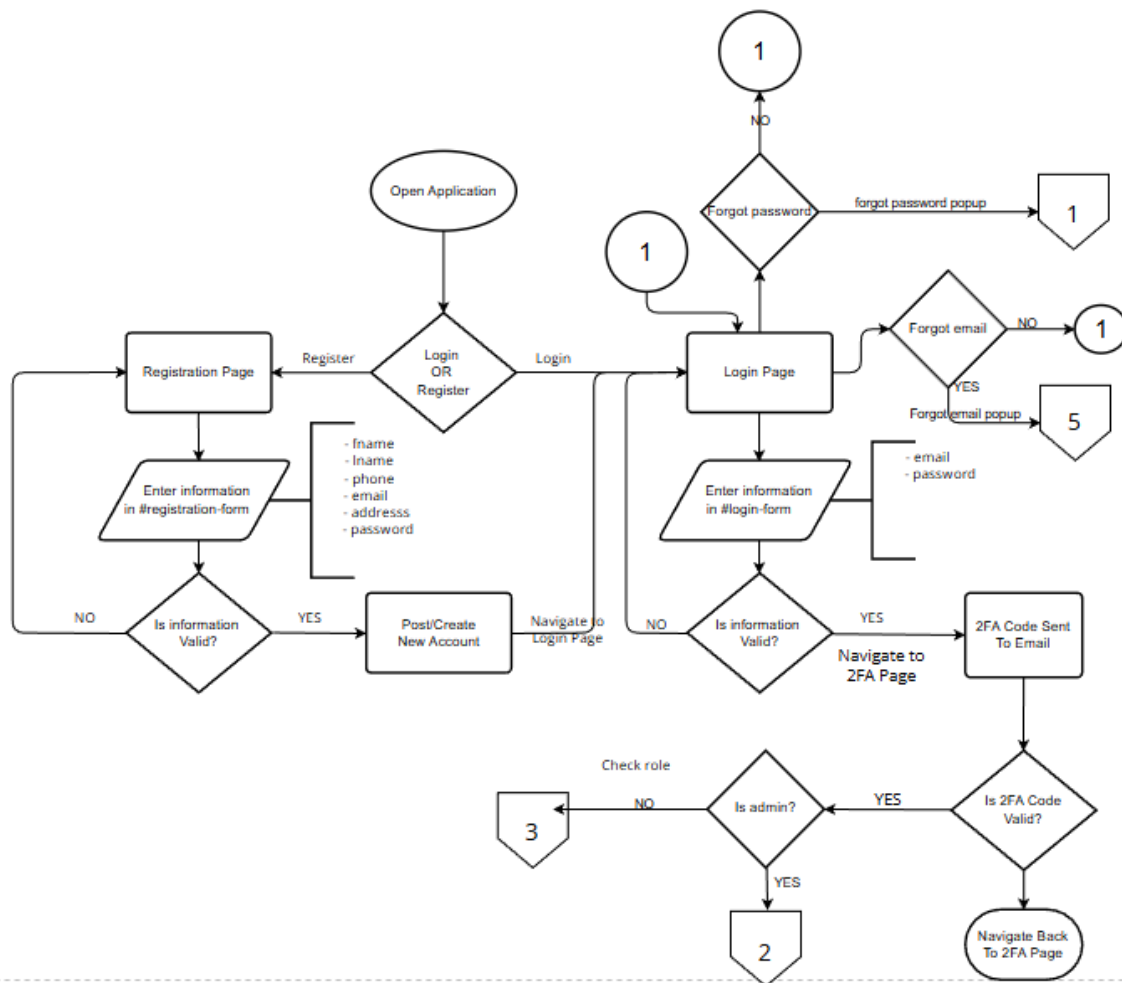
Appendix 4: Class Diagram



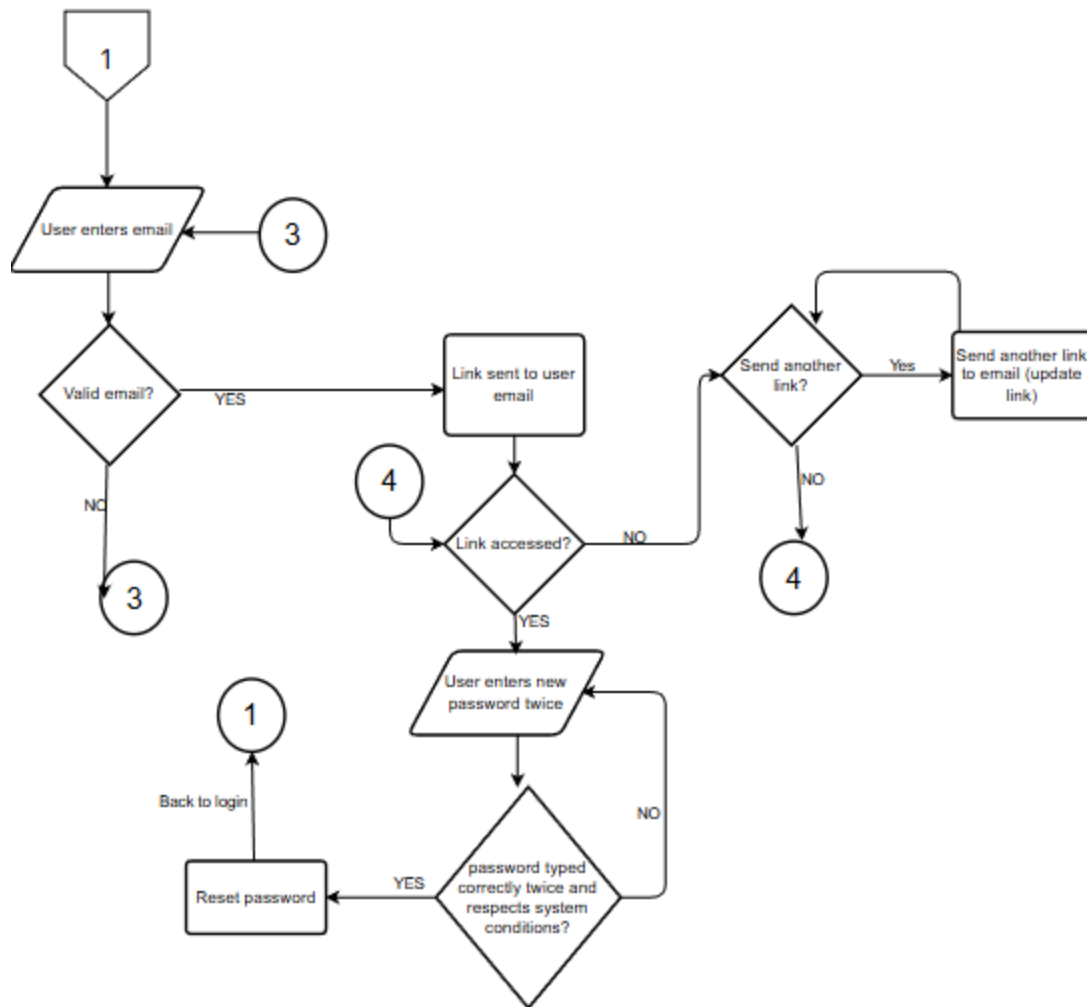
Appendix 5: ERD



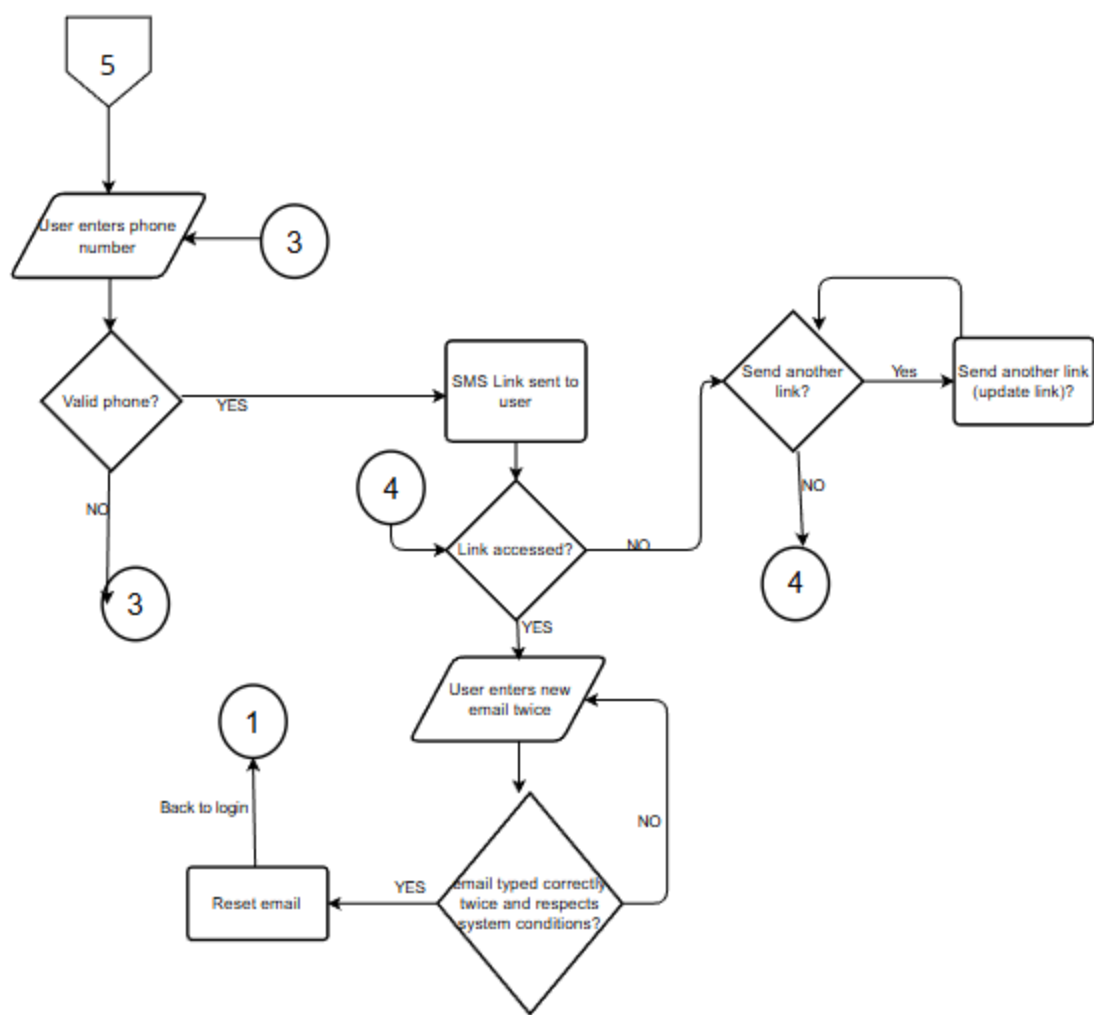
Appendix 6: Flowcharts



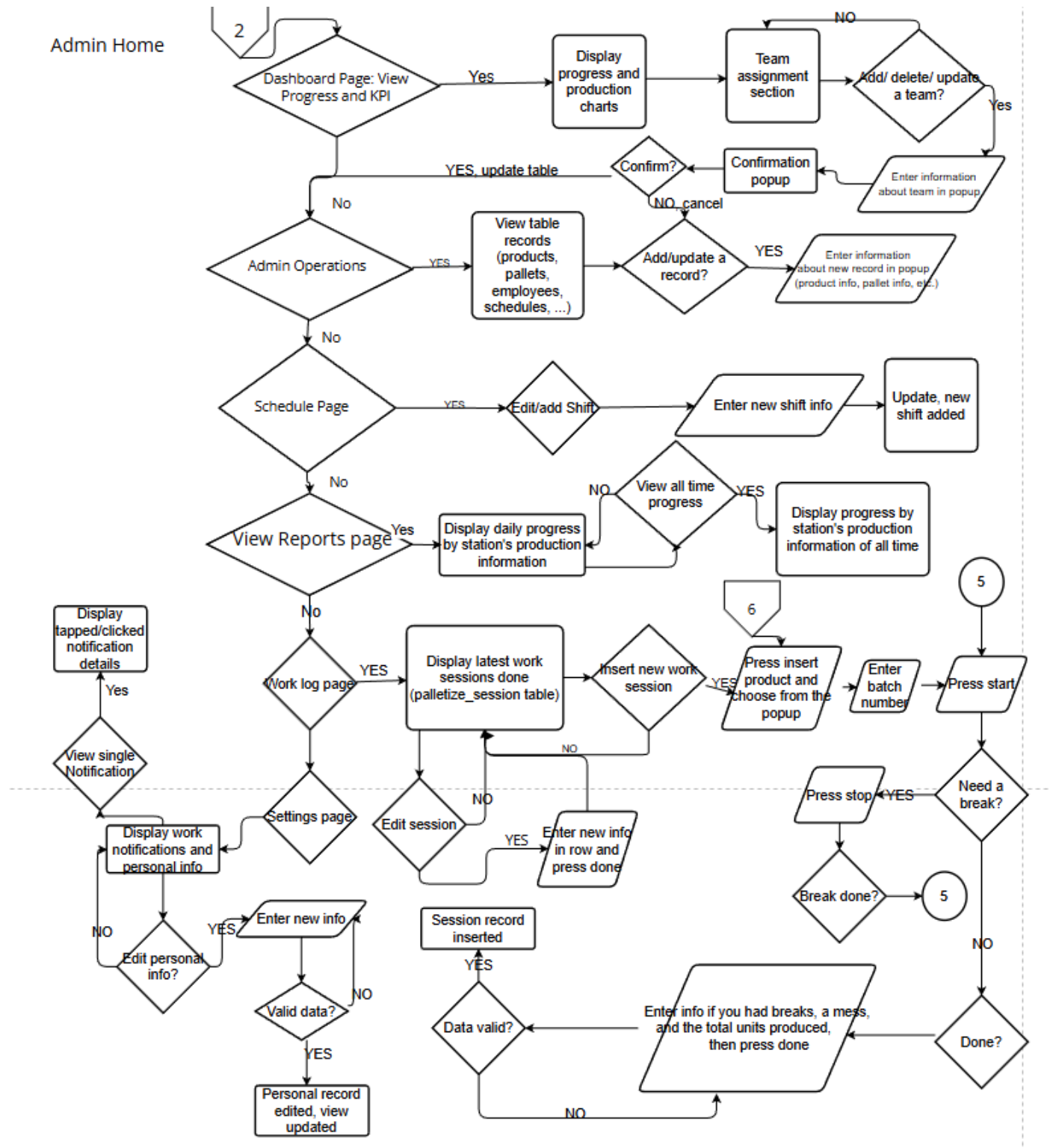
Forgot password - Reset password page

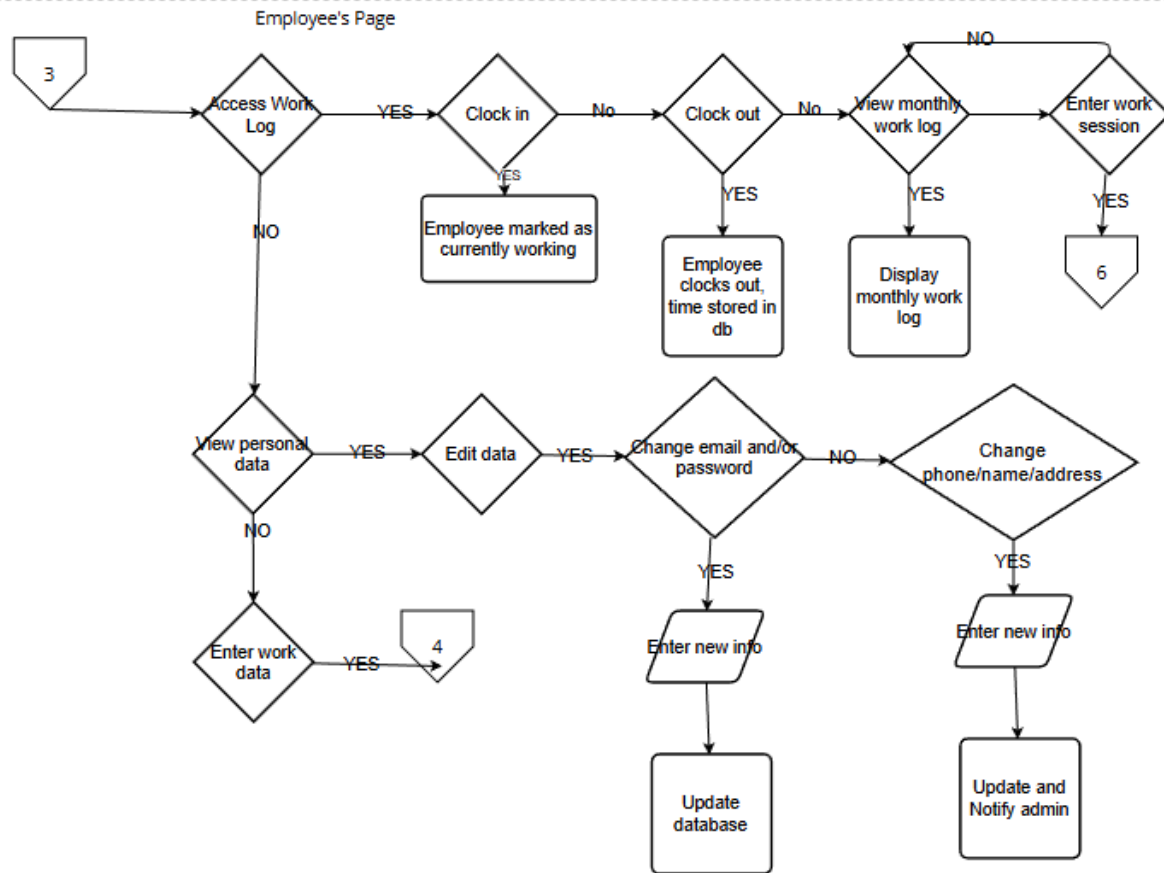


Forgot email page



Admin Home





Appendix 7: Figma

<https://www.figma.com/design/ZQypZbVhZd8RDBBc7pAK4Q/KVC-Mockup?node-id=274-3283&t=YThwAns4rR12Tptm-1>