

WORK UPDATE

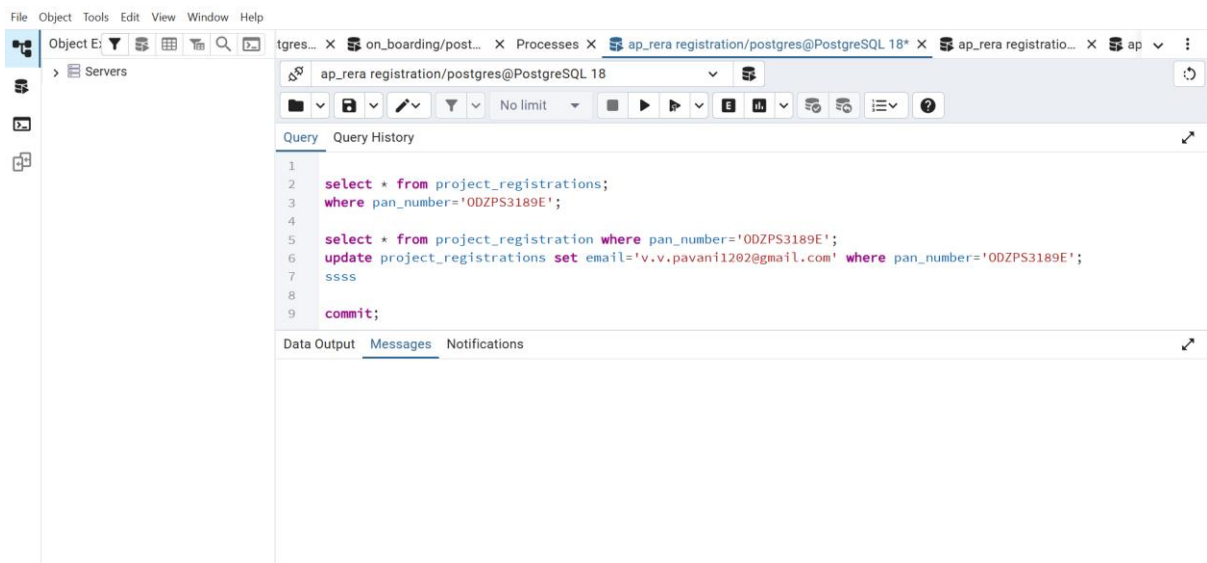
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This document provides a detailed overview of the recent development work completed for the Extension Module. The primary focus of this task was to ensure seamless integration between multiple modules, including:

- Extension Application Page
- Project Application Details Page
- Payment Page
- Certificate Generation Page

The objective was to establish a smooth end-to-end workflow where data flows correctly based on the selected application number and ensures accurate certificate generation without errors.



2. Objective of the Implementation

The main goals of this implementation were:

- To enable dynamic routing using application number parameters.
- To ensure correct data fetching from the backend for each selected application.
- To display project-specific details dynamically on the Certificate page.
- To resolve issues related to blank pages during print and download.
- To ensure the complete extension-to-certificate flow functions without interruption.

WORK UPDATE

This work enhances the reliability, scalability, and user experience of the Extension module.

3. Scope of Work

The scope of this development included:

- Implementing route-based parameter passing.
- Backend integration for fetching project data.
- Updating frontend components to handle dynamic data.
- Testing and fixing print and PDF download functionality.
- Ensuring consistent data display across all connected pages.

Routing and Data Flow Implementation

1. Application Number Based Routing

To ensure proper navigation between modules, routing was updated to pass the selected application number as a parameter.

Key Enhancements:

- Configured dynamic route paths.
- Extracted application number using route parameters.
- Ensured parameter validation before backend API calls.
- Prevented navigation errors for invalid or missing application numbers.

This implementation ensures that every page receives context-specific data instead of static or hardcoded values.

2. Data Flow Between Modules

A structured data flow was implemented as follows:

1. User selects an extension application.
2. Application number is passed to the Project Application Details page.
3. The same parameter flows to the Payment page.
4. After successful payment, the Certificate page uses the same application number to fetch final details.

WORK UPDATE

This created a consistent and traceable workflow throughout the system.

3. Backend Integration

Backend APIs were integrated to fetch the following data dynamically:

- Project Name
- Promoter Name
- Original Completion Date
- Extended Completion Date
- Approval Details

Proper error handling was added to:

- Manage API failures.
- Handle missing records.
- Prevent undefined data rendering.
- Display meaningful error messages to the user.

This ensures system stability and better user experience.

Certificate Page Enhancement

1. Dynamic Data Rendering

The Certificate page was enhanced to dynamically display project-specific details based on the selected application number.

Improvements Made:

- Replaced static placeholders with dynamic API response data.
- Implemented conditional rendering to avoid null value issues.
- Ensured date formatting consistency.
- Maintained proper layout alignment while rendering backend data.

This guarantees that each certificate reflects accurate and application-specific information.

2. Print Functionality Fix

WORK UPDATE

Previously, the print function generated blank or extra pages. The following corrections were made:

- Adjusted CSS print media queries.
- Removed unnecessary margins and page breaks.
- Ensured content fits within printable layout boundaries.
- Prevented duplication or overflow of content.

Now, when the user clicks print:

- Only the certificate page prints.
- No blank pages are generated.
- Layout remains consistent.

3. Download Functionality Enhancement

The certificate download feature was refined to:

- Generate properly formatted PDF output.
- Maintain consistent fonts and alignment.
- Avoid rendering issues.
- Prevent empty file downloads.

The download process is now stable and produces correctly formatted certificates.