

Full Stack Development with MERN

Project Documentation format

1. Introduction

Project Title: Cafeteria Menu Display

Team Members:

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Team Size : 4

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2. Project Overview

•Purpose:

The **Cafeteria Menu Display Portal** is designed to manage, publish, and display daily and weekly cafeteria menus efficiently across an organization. It enables administrators to create, approve, and schedule menus while allowing employees to view real-time meal options, dietary choices, and special offerings.

Key Features:

- Create and manage cafeteria menus
- Schedule menus by date
- Publish menus for employee viewing
- Service Catalog submission for new menus

- Automated approval and publishing workflow
- Reports and dashboard integration
- Historical menu tracking

3. Architecture

This project is built using the ServiceNow platform, which provides built-in frontend, backend, database, and workflow capabilities.

Frontend (Portal/UI)

- Uses ServiceNow forms and Service Portal UI
- Employees interact through Service Catalog
- Admins manage menus via table forms
- Dashboard displays reports

Backend (Business Logic)

- Implemented using ServiceNow server-side scripting
- UI Actions automate publishing workflow
- Business rules manage data processing

Database (Tables)

Custom table: Cafeteria Menu Display

Fields include:

- Menu Name
 - Menu Date
 - Menu Items
 - Status (Draft/Published)
-

4. Setup Instructions

Prerequisites

- ServiceNow instance access
- Admin role permissions
- Web browser

Installation / Configuration Steps

1. Log in to ServiceNow instance

2. Create a new application:

◦ **Name: Cafeteria Menu Display**

3. Create custom table under System Definition

4. Add fields: Menu Name, Date, Items, Status

5. Create Service Catalog item

6. Configure variables for menu submission

7. Create reports and dashboards

8. Add UI Action for publishing menus

5. Folder Structure (Conceptual in ServiceNow)

Client Side (User Interface)

- Service Portal Pages
- Catalog Item Forms
- Dashboard Widgets

Server Side (Backend Components)

- Custom Tables
- UI Actions
- Business Rules
- Reports
- Workflows

6. Running the Application

Since this is a ServiceNow cloud application, no local server setup is required.

To use the system:

- Open ServiceNow instance
- Navigate to Service Catalog → Submit New Cafeteria Menu
- Admins manage menus via Cafeteria Menu table

7. API Documentation (Conceptual)

ServiceNow provides REST APIs automatically.

Example Operations

Create Menu

- **Method:** POST
- **Endpoint:** /api/now/table/cafeteria_menu
- **Parameters:** Menu Name, Date, Items

Retrieve Menus

- **Method:** GET
- Returns list of menus

Update Status

- **Method:** PUT/PATCH
- Used when marking menu as Published

8. Authentication

- Handled by ServiceNow user authentication
- Role-based access control (RBAC)
- Only admins can create/publish menus
- Employees have read-only access

9. User Interface

Key UI Components:

- Service Catalog form to submit menu
- Table view for administrators
- “Mark as Published” button (UI Action)
- Dashboard with reports

The screenshot shows a ServiceNow application window titled 'Cafeteria Menu s'. The URL in the address bar is 'dev230674.service-now.com/nav/ui/classic/params/target/x_1914015_cafeteri_cafeteria_menu_list.do'. A security update message about MFA implementation is displayed at the top. The main content is a table listing cafeteria menu items. The columns are 'Menu Date', 'Menu Items', 'Menu Name', and 'Published'. The data is as follows:

Menu Date	Menu Items	Menu Name	Published
2026-02-07	2026-02-06 21:22:19 - System Administrat	Chinese	Published
2026-02-20	2026-02-19 08:30:10 - System Administrat	Mumbai	Published
2026-02-19	2026-02-19 08:26:05 - System Administrat	India	Published

A modal dialog box is open in the top right corner with the title 'Application scope: Cafeteria Men...'. It contains the text 'Update set: Default [Cafeteria Men...]' and a 'New' button.

10. Testing

Testing was performed using:

- Manual functional testing
- Catalog submission testing
- UI Action testing

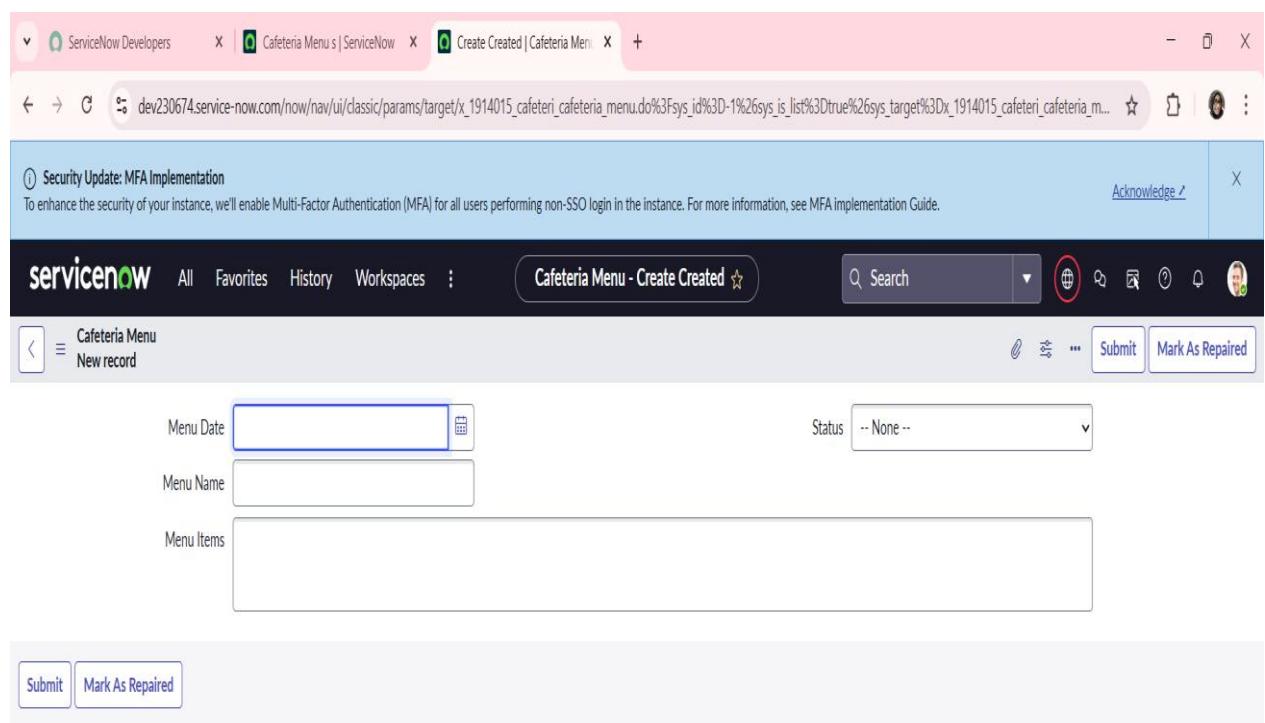
- Report generation validation

Test Cases Included:

- Creating new menu
- Publishing menu
- Viewing menu as employee
- Report accuracy

11. Screenshots or Demo

Include screenshots of:



The screenshot shows a ServiceNow interface for creating a new cafeteria menu. The top navigation bar includes tabs for 'ServiceNow Developers', 'Cafeteria Menus | ServiceNow', and 'Create Created | Cafeteria Men...'. A security message about MFA implementation is displayed. The main title is 'Cafeteria Menu - Create Created'. The form contains fields for 'Menu Date' (with a calendar icon), 'Menu Name', and 'Menu Items'. Buttons for 'Submit' and 'Mark As Repaired' are at the bottom.

ServiceNow Developers | Cafeteria Menu s | ServiceNow | Cafeteria Menu s | ServiceNow

dev230674.service-now.com/nav/ui/classic/params/target/x_1914015_cafeteri_cafeteria_menu_list.do

Security Update: MFA Implementation
To enhance the security of your instance, we'll enable Multi-Factor Authentication (MFA) for all users performing non-SSO login in the instance. For more information, see MFA Implementation Guide.

Acknowledge ↗

ServiceNow All Favorites History Workspaces Admin Cafeteria Menu s Search

Cafeteria Menu s

All Cafeteria Menu s Menu Date Search

Actions on selected rows... New

Menu Date	Menu Items	Menu Name	Status
2026-02-07	2026-02-06 21:22:19 - System Administrator Vada Pav, Pav Bhaji	Chinese	Published
2026-02-20	2026-02-19 08:30:10 - System Administrat	Mumbai	Published
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1 to 3 of 3

ServiceNow Developers | Cafeteria Menu s | ServiceNow | Created 2026-02-19 08:30:10 | Cafeteria Menu - Created 2026-02-19 08:30:10

dev230674.service-now.com/nav/ui/classic/params/target/x_1914015_cafeteri_cafeteria_menu.do%3Fsys_id%3D40b6771fc3033210abc9b7ddd401315e%26sysparm_record_target%3Dx_19...

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Acknowledge ↗

ServiceNow All Favorites History Admin Cafeteria Menu - Created 2026-02-19 08:30:10 Search

Cafeteria Menu

Created 2026-02-19 08:30:10

Update Delete

Menu Date: 2026-02-20 Status: Published

Menu Name: Mumbai

Menu Items:

Game Bar Game clip recorded

Press ⌘ or ⌘ + G for Game Bar

ServiceNow Developers | Cafeteria Menu s | ServiceNow | Cafeteria Menu s | ServiceNow

dev230674.service-now.com/nav/ui/classic/params/target/x_1914015_cafeteri_cafeteria_menu_list.do

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The screenshot shows a ServiceNow interface for managing cafeteria menus. At the top, there are three tabs: 'ServiceNow Developers', 'Cafeteria Menu s | ServiceNow', and 'Cafeteria Menu s | ServiceNow'. A security update message about MFA implementation is displayed. The main title is 'Cafeteria Menu s'. The page displays a list of menu items:

Menu Date	Menu Items	Menu Name	Status
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A tooltip indicates the application scope is 'Cafeteria Men...' and the update set is 'Default |Cafeteria Men... >'. The bottom of the page shows a navigation bar with icons for search, refresh, and other functions.

12. Known Issues

- No automated approval workflow (manual publishing required)
 - Limited dietary filtering options
 - No mobile-optimized portal design
 - Depends on ServiceNow instance availability
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13. Future Enhancements

Possible improvements:

- Mobile app integration
- Automated approval workflow
- Dietary filters (Veg/Non-Veg/Vegan/Allergens)

- Email/SMS notifications for new menus
- AI-based meal recommendations
- Feedback and rating system for meals