

# **Full Stack Development with MERN**

## **Project Documentation format**

### **1. Introduction**

**Project Title:** Cafeteria Menu Display

**Team Members:**

**Team ID :** LTVIP2026TMIDS66321

**Team Size :** 4

**Team Leader :** Kalimandla Soniya

**Team member :** Rachamreddy Suhasini

**Team member :** Pagidi Shashank

**Team member :** T.Naga Sushma

### **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)
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## 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

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## **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

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## **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

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## 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

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## 8. Authentication

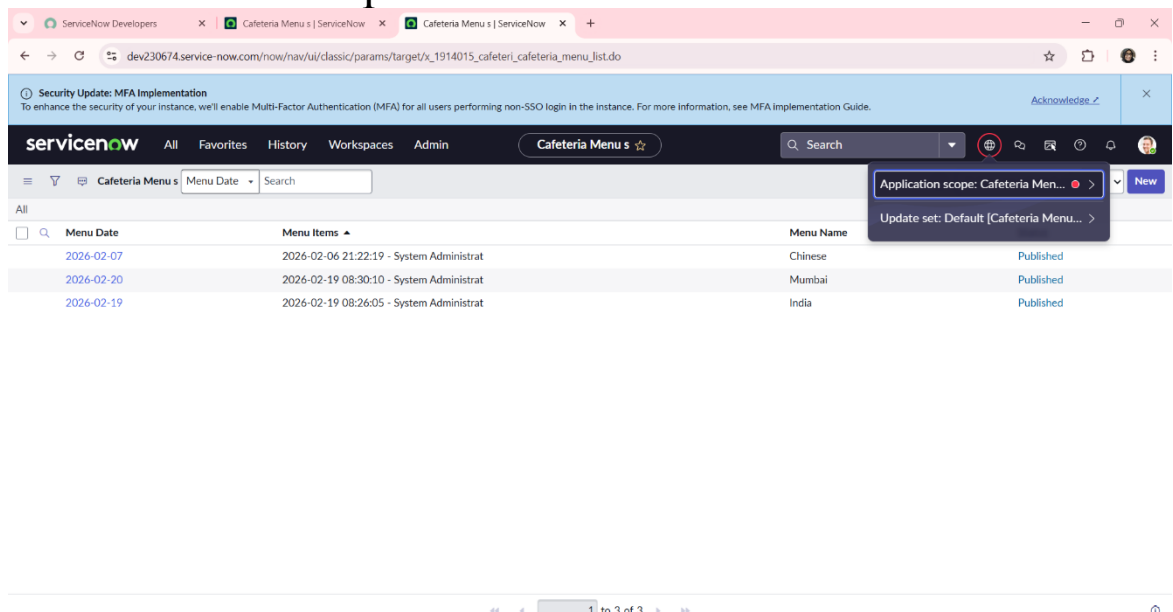
- Handled by ServiceNow user authentication
- Role-based access control (RBAC)
- Only admins can create/publish menus
- Employees have read-only access

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## 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



Menu Date	Menu Items	Menu Name	
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

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## 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

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## 11. Screenshots or Demo

### Include screenshots of:

The screenshot shows a web browser window with the ServiceNow interface. The browser tabs include 'ServiceNow Developers', 'Cafeteria Menu | ServiceNow', and 'Create Created | Cafeteria Menu'. The address bar shows a URL from dev230674.service-now.com. A blue banner at the top contains a 'Security Update: MFA Implementation' message. The ServiceNow header includes the logo, navigation links (All, Favorites, History, Workspaces), a search bar, and a user profile icon. The main form is titled 'Cafeteria Menu - Create Created' and shows a 'New record' state. The form fields include 'Menu Date' (with a calendar icon), 'Menu Name', 'Menu Items' (a large text area), and a 'Status' dropdown menu currently set to '-- None --'. At the bottom of the form are 'Submit' and 'Mark As Repaired' buttons.

ServiceNow Developers

Cafeteria Menu s | ServiceNow

Cafeteria Menu s | ServiceNow

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dev230674.service-now.com/now/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

Actions on selected rows...

New

All

Menu Date

Menu Items

Menu Name

Status

2026-02-07

2026-02-06 21:22:19 - System Administrator (Menu Items)  
Vada Pav, Pav Bhaji

Chinese

Published

2026-02-20

2026-02-19 08:30:10 - System Administrator

Mumbai

Published

2026-02-19

2026-02-19 08:26:05 - System Administrator

India

Published

1 to 3 of 3

ServiceNow Developers

Cafeteria Menu s | ServiceNow

Created 2026-02-19 08:30:10 |

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dev230674.service-now.com/now/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

Update

Delete

Cafeteria Menu

Created 2026-02-19 08:30:10

Menu Date

Menu Name

Menu Items

Status

Published

Update

Delete

Game Bar

Game clip recorded

Press or + G for Game Bar

ServiceNow Developers

Cafeteria Menu s | ServiceNow

Cafeteria Menu s | ServiceNow

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dev230674.service-now.com/now/nav/ui/classic/params/target/x\_1914015\_cafeteri\_cafeteria\_menu\_list.do

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servicenow

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## 12. Known Issues

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

## 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