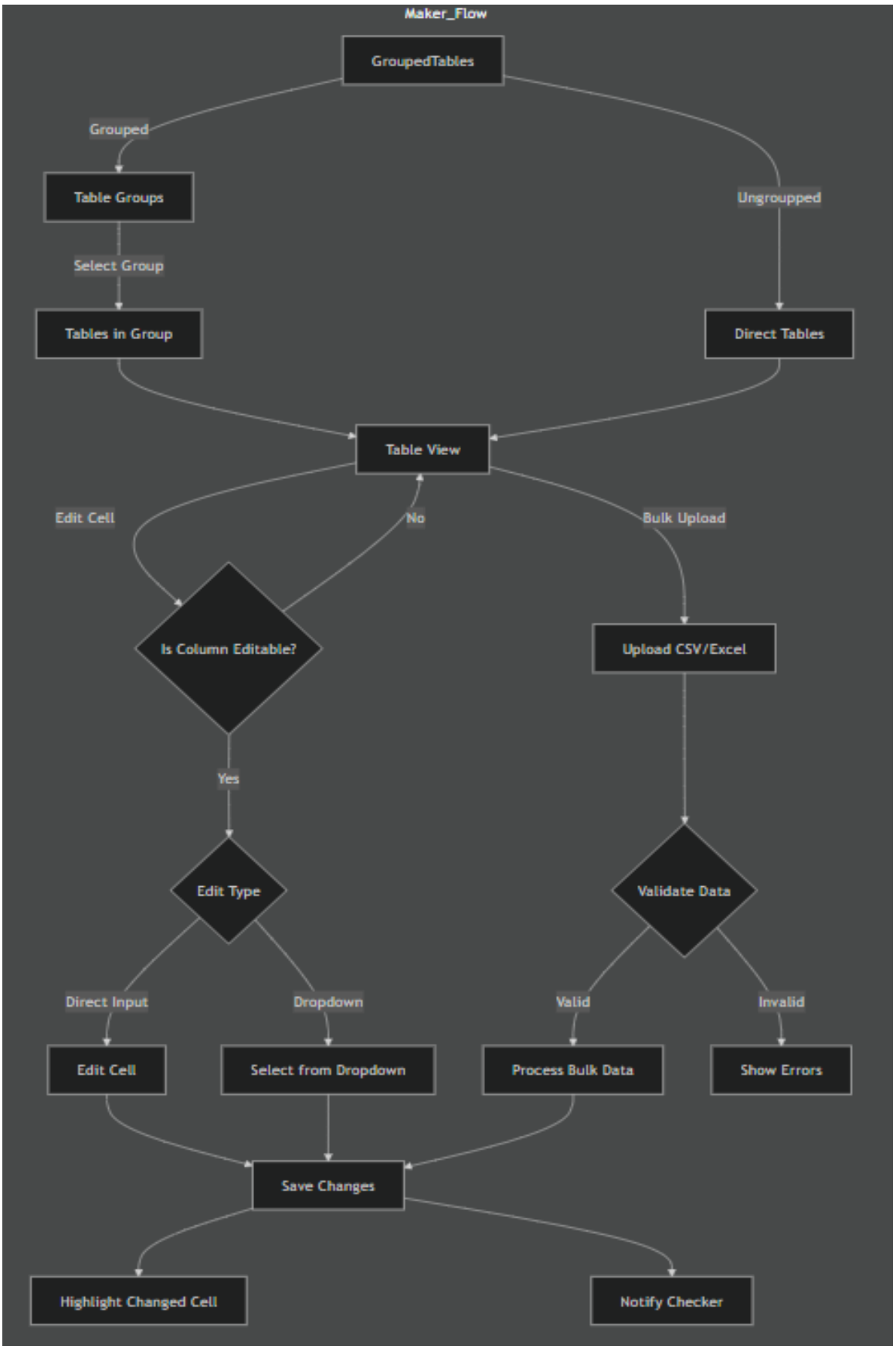
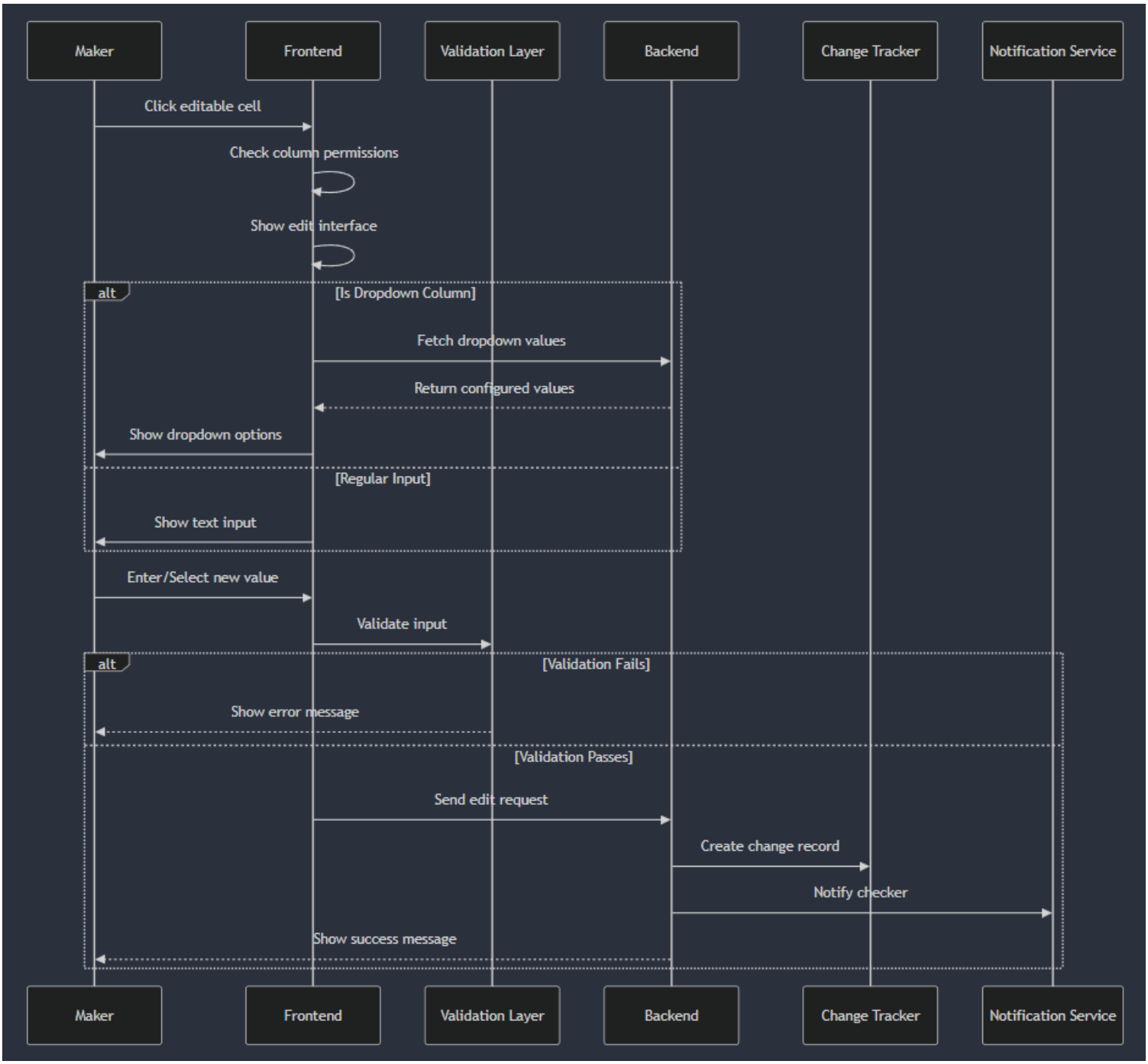
SundaramPortal - Maker Role Documentation

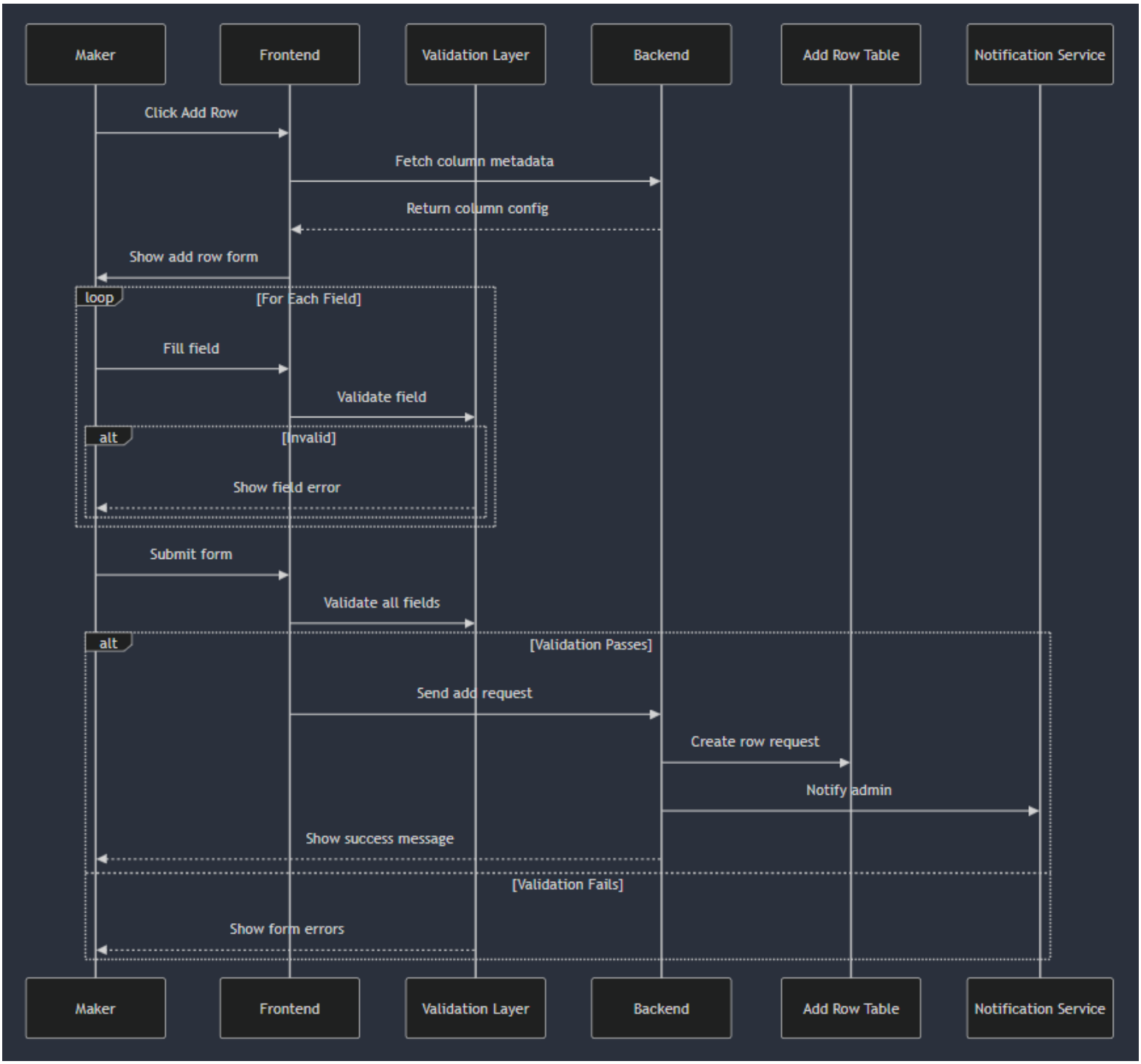
Maker Flow-



Edit row flow -



Add row flow-


Maker
Frontend
Validation Layer
Backend
Add Row Table
Notification Service
Click Add Row
Fetch column metadata
Return column config
Show add row form
loop
[For Each Field]
Fill field
Validate field
alt
[Invalid]
Show field error
Submit form
Validate all fields
alt
[Validation Passes]
Send add request
Create row request
Notify admin
Show success message
[Validation Fails]
Show form errors
Maker
Frontend
Validation Layer
Backend
Add Row Table
Notification Service

1. Overview

The Maker role is a primary data entry and modification role in SndaramPortal, designed for users who need to manage and update data while maintaining data integrity through a structured approval process.

2. Core Capabilities

2.1 Data Management

- View and edit database tables based on assigned permissions
- Modify existing data with checker approval
- Add new records with admin approval
- Perform bulk updates via CSV uploads
- View change history and track request status

2.2 Permission System

- Column-level access control
- Group-based table organization
- Configurable dropdown values for restricted columns
- Dynamic permission updates

3. Feature Breakdown

3.1 Table Management

Group Organization

- Tables organized into logical groups
- Support for both grouped and ungrouped views
- Quick navigation between groups
- Group-level search functionality

Column Permissions

- Dynamic column-level access control
- Editable/non-editable column configuration
- Dropdown value restrictions
- Permission inheritance within groups

3.2 Change Management

Cell-Level Tracking

- Real-time change highlighting
- Visual indicators for modified cells

- Change history tracking
- Status indicators for pending changes

Notification System

- Real-time notifications for:
- Checker approvals
- Checker rejections
- Admin approvals
- System updates
- Notification preferences management

3.3 Approval Workflow

Edit Row Workflow

- Maker selects table and row to edit
- System validates permissions
- Maker makes changes
- Changes are highlighted
- Request sent to checker
- Maker receives notification of checker's decision
- Changes are applied or rejected based on checker's decision

Add Row Workflow

1. Maker selects table for new row

- System validates permissions
- Maker enters new data
- Request sent to admin
- Maker receives notification of admin's decision
- Row is added or rejected based on admin's decision

Bulk Update Workflow

- Maker prepares CSV file
- System validates file format
- Maker uploads file
- System processes changes
- Changes are highlighted
- Requests sent to checker
- Maker receives notifications of checker's decisions

3.4 User Interface

Navigation

- Group/Ungrouped view toggle
- Search functionality
- Filter options
- Sort capabilities

Visual Indicators

- Highlighted changed cells
- Status indicators
- Notification alerts
- Progress tracking

4. Error Handling

4.1 Input Validation

- Real-time validation
- Clear error messages
- Input format guidance
- Required field indicators

4.2 System Errors

- Transaction management
- Automatic rollback
- Error logging
- User-friendly error messages

5. Best Practices

5.1 Data Entry

- Verify data before submission
- Use appropriate dropdown values
- Follow data format guidelines
- Check for duplicate entries

5.2 Change Management

- Review changes before submission
- Add clear comments when required
- Monitor request status
- Respond to notifications promptly

6. Security Considerations

6.1 Access Control

- Role-based permissions
- Session management
- Secure data transmission
- Audit logging

6.2 Data Protection

- Input sanitization
- SQL injection prevention
- XSS protection
- CSRF protection