

# SEN4017 - Maintenance Scheduling System

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## Description

An application that schedules, tracks, and manages maintenance tasks for machines in a manufacturing environment.

## Windows

### Database Related Windows:

#### 1. Machine Management Windows

- Add, edit, and delete machine records
- Fields: Machine ID, Name, Location, Type, Status

#### 2. Maintenance Task Management Windows

- Add, edit, and delete scheduled maintenance tasks
- Fields: Task ID, Machine ID, Maintenance Type, Date, Technician Name

#### 3. Maintenance History Window

- View maintenance history records
- Search by date, machine, or technician

### Other Windows:

#### 4. Dashboard (Home Screen)

- Upcoming tasks, pending tasks, and recently completed tasks

#### 5. Report Generation Window

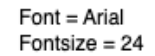
- Maintenance completion and upcoming task reports
- Export to Excel

#### 6. Login and Language Selection Window

- User authentication
- Language selection (English and Turkish)

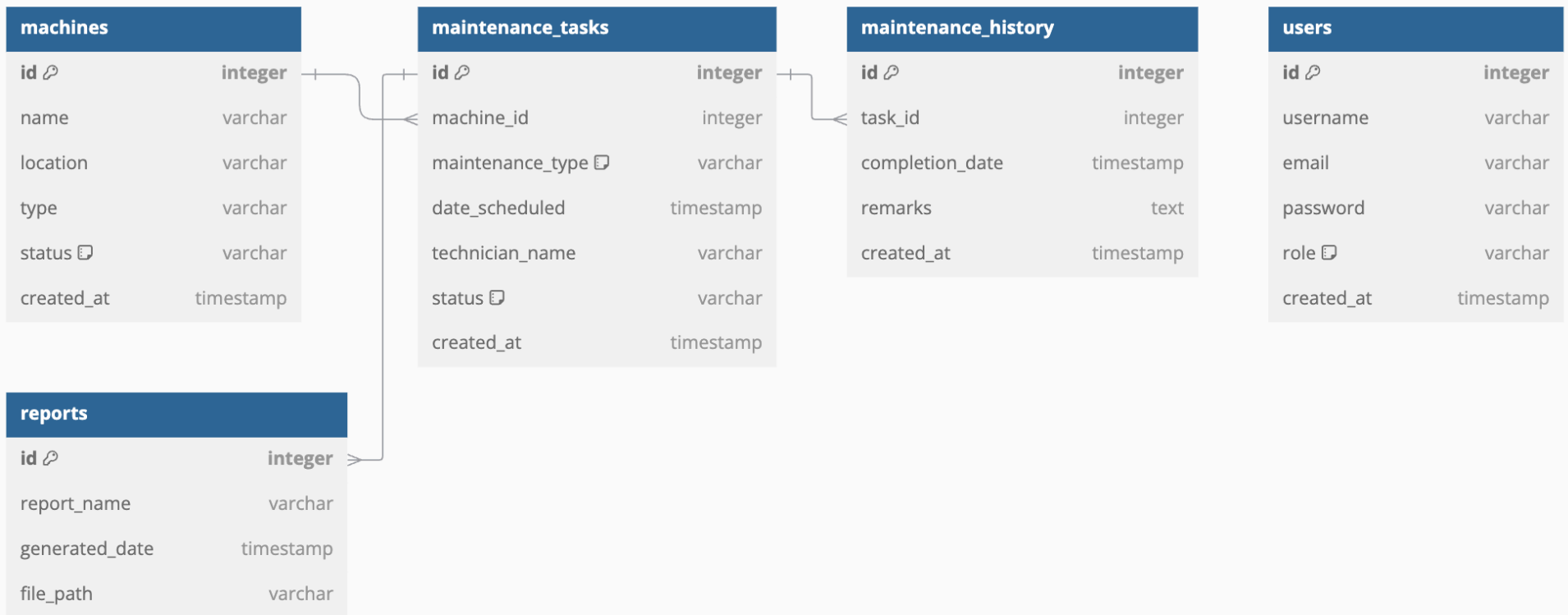
## Windows Design

Font = Arial  
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# Database Design



## Functional Requirements

### 1. Form Validation

- Ensure all fields are filled before submission
- Date validation and unique Machine ID checking

### 2. Reporting and Visualization

- Generate maintenance task completion charts using Matplotlib
- Export reports( `openpyxl` or `pandas` )

### 3. Internationalization

- Support English and Turkish language options.