

Person Management System

Project Overview

Project Title: Person Management System

Technology Used:

- ASP.NET Web Forms
- C#
- MySQL
- ADO.NET
- Visual Studio 2026
- Database: CitizenDB

Database Design

Tables Used:

- States
- Districts
- Languages
- Occupations
- Persons
- PersonLanguages (Many-to-Many)

Validation Rules

1. Name Field

- Required field
- Cannot be empty
- Max length: 100 characters

2. Address

- Optional
- Text format allowed

3. Gender

- Required
- Must select Male or Female

4. Date of Birth

- Required
- Must be valid date format (yyyy-mm-dd)

5. State

- Required
- Must select a valid state
- District dropdown depends on selected State

6. District

- Required

- Loaded dynamically based on State

7. Occupation

- Required
- Selected from dropdown

8. Marital Status

- Required
- If Married → Spouse Name should be filled

9. License

- If "Has License" checked → License Number must be entered

10. Profile Photo

- Optional
- Stored in /Uploads/Profile/
- File path stored in database

CRUD Workflow

CREATE (Insert)

- User fills the form and clicks "Save Person"
- System uploads photo, inserts data into Persons table
- Gets new PersonId using LAST_INSERT_ID ()
- Inserts selected languages into PersonLanguages table
- Grid refreshes automatically

READ (Display)

- On page load, LoadPersons() method executes
- Joins Persons, States, Districts, Occupations
- Data displayed in GridView

UPDATE

- Click Edit in GridView → PersonId stored in HiddenField
- Click "Update Person"
- System updates Persons table, deletes old language records, inserts new selected languages
- Grid refreshes

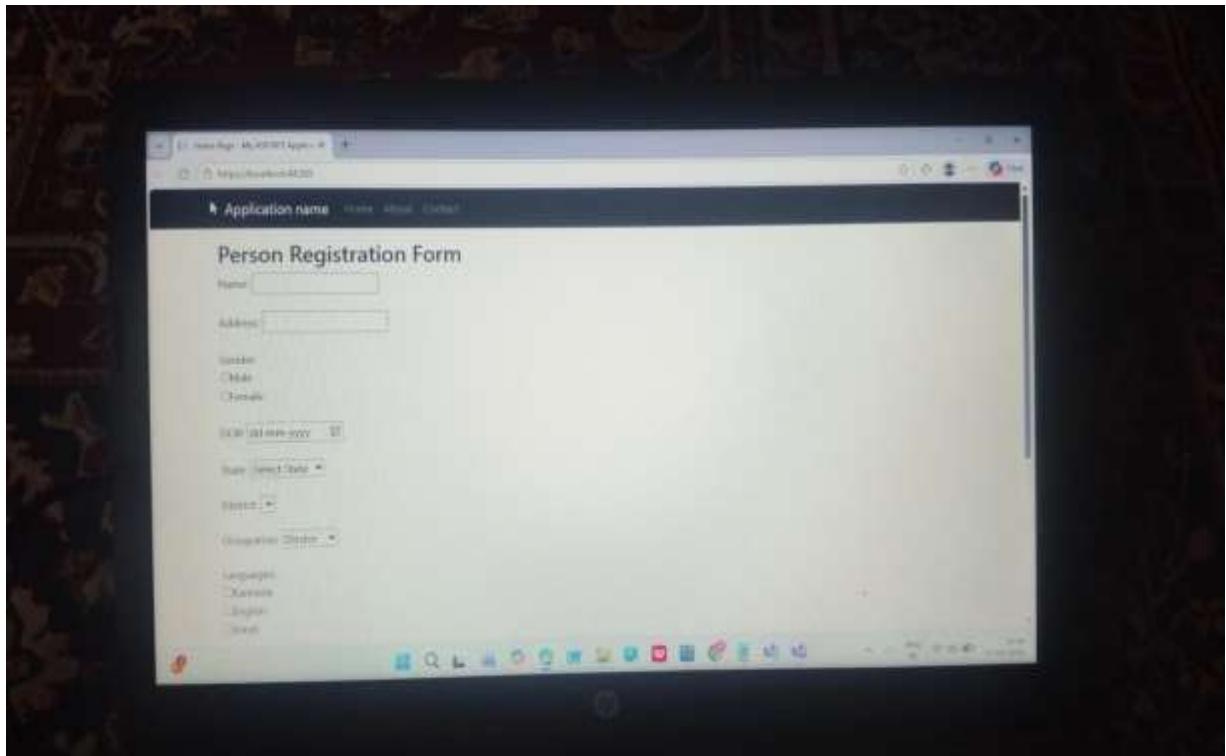
DELETE

- Click Delete button
- System deletes related records from PersonLanguages, then deletes record from Persons
- Grid refreshes automatically

Screenshots Section

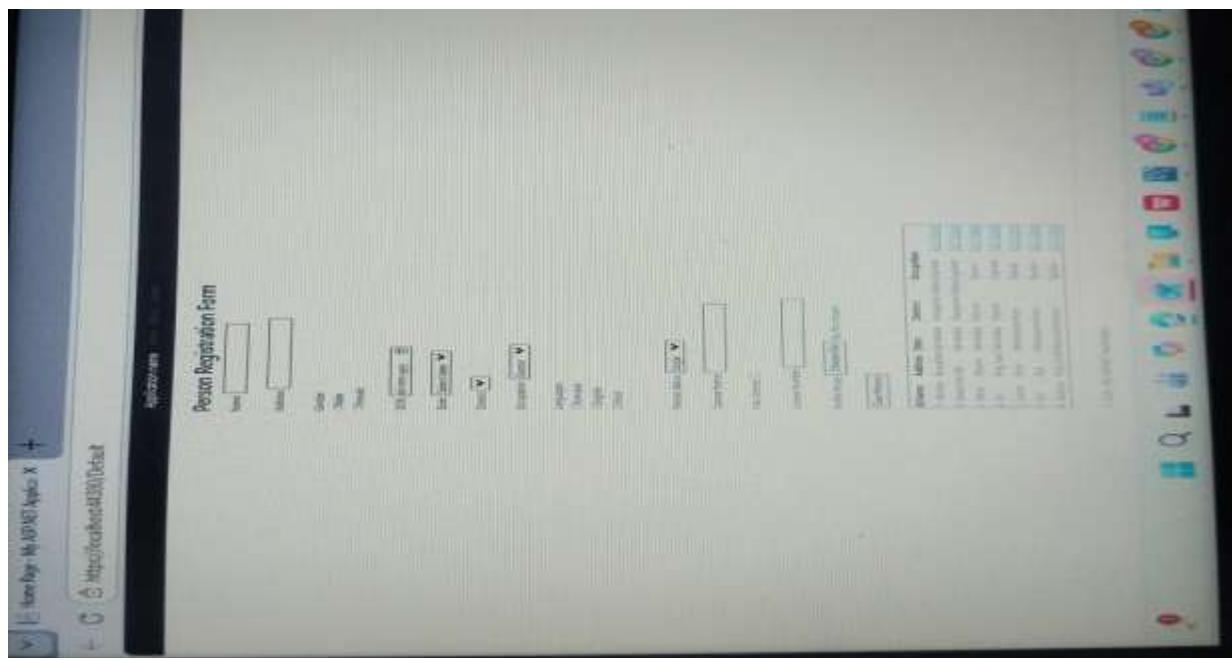
Screenshot 1: Registration Form

- Show all input fields, dropdowns, languages checkbox list, and Save button



Screenshot 2: Grid Display

- Show data loaded from database with Edit and Delete buttons



Screenshot 3: Insert Operation

- Show after adding new person, Grid showing newly inserted record

Marital Status: Single

Spouse Name:

Has License:

License Number:

Profile Photo: No file chosen

ID Name	Address	State	District	Occupation	
10 Dia	New road	Maharashtra	Pune	Doctor	Edit Delete
2. Rahul	Mysore	Karnataka	Mysore	Doctor	Edit Delete
1. Akshata	Bengaluru	Karnataka	Bangalore	Urban Engineer	Edit Delete
9. Deekshith HSR	Karnataka	Bangalore	Urban Engineer	Edit Delete	
8. Ani	Ring road	Karnataka	Mysore	Engineer	Edit Delete
3. Sreyta	Pune	Maharashtra	Pune	Teacher	Edit Delete
5. Adi	Bgk	Maharashtra	Pune	Teacher	Edit Delete
6. Swastha	Ring circle	Maharashtra	Pune	Teacher	Edit Delete

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Screenshot 4: Update Operation

- Show editing record and updated result in Grid

Languages:

Kannada
 English
 Hindi

Marital Status: Single

Spouse Name:

Has License:

License Number:

Profile Photo: No file chosen

ID Name	Address	State	District	Occupation	
1. Akshata	Hiremath	Maharashtra	Pune	Doctor	Edit Delete
9. Deekshith	HSR	Karnataka	Bangalore Urban	Engineer	Edit Delete
2. Rahul	Mysore	Karnataka	Mysore	Doctor	Edit Delete
8. Ani	Ring road	Karnataka	Mysore	Engineer	Edit Delete
3. Sreyta	Pune	Maharashtra	Pune	Teacher	Edit Delete
5. Adi	Bgk	Maharashtra	Pune	Teacher	Edit Delete
6. Swastha	Ring circle	Maharashtra	Pune	Teacher	Edit Delete

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Screenshot 5: Delete Operation

- Show before delete and after delete (record removed)

Marital Status: Single

Spouse Name:

Has License:

License Number:

Profile Photo: No file chosen

ID	Name	Address	State	District	Occupation
1	Akshu	Hiremath	Karnataka	Bangalore	Urban Engineer
2	Rahul	Mysore	Karnataka	Mysore	Doctor
3	Sneha	Pune	Maharashtra	Pune	Teacher
4	Ash	BPL	Maharashtra	Pune	Teacher
5	Savapriya	Ring circle	Maharashtra	Pune	Teacher
6	Anu	Rung road	Karnataka	Mysore	Engineer
7	Dia	New road	Maharashtra	Pune	Doctor

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Database Output

The screenshot shows the MySQL Workbench interface with the following details:

- Left Sidebar (Navigator):**
 - MANAGEMENT:** Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore.
 - INSTANCE:** Startup / Shutdown, Server Log, Options File.
 - PERFORMANCE:** Dashboard, Performance Reports, Performance Schema Status.
- Central Area:**
 - CurrentDB Project:** Administration - Data Export
 - Query Editor: `use CitizenDB;`
`select * from Persons;`
 - Results Grid (10 rows of data):
- Bottom:** MySQL Workbench toolbar and taskbar.

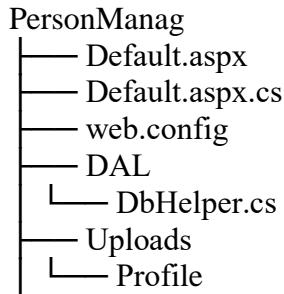
Results Grid Data:

PersonID	Name	Address	Gender	DOB	MaritalStatus	DistrictID	OccupationID	MaritalStatus	SpouseName	Occupation	Phone
1	Akshu	Hiremath	Female	2001-01-01	1	1	2	Single		Urban Engineer	0
2	Rahul	Mysore	Male	1995-08-20	1	2	1	Married	Priya	Doctor	0
3	Sneha	Pune	Female	1998-05-10	2	3	3	Married	Ajay	Teacher	0
4	Ash	BPL	Male	2002-02-03	2	3	2	Single		Teacher	0
5	Savapriya	Ring circle	Female	2000-07-01	2	3	2	Single		Teacher	0
6	Anu	Rung road	Male	2014-01-02	1	2	2	Married	Sunita	Engineer	2465
7	Dia	New road	Female	2001-01-01	2	3	1	Single		Doctor	0
8											
9											
10											

Features Implemented

- Insert
- Update
- Delete
- Many-to-Many Relationship
- Dynamic Dropdown
- File Upload
- Foreign Keys
- GridView Display
- Clean Code Structure
- Separate DAL Layer

Project Structure



Conclusion

The Person Management System successfully implements full CRUD operations with relational database integration. The system demonstrates understanding of:

- ASP.NET Web Forms
- MySQL Database
- ADO.NET
- Many-to-Many relationships
- File handling
- Dynamic controls
- Real-time GridView updates