

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

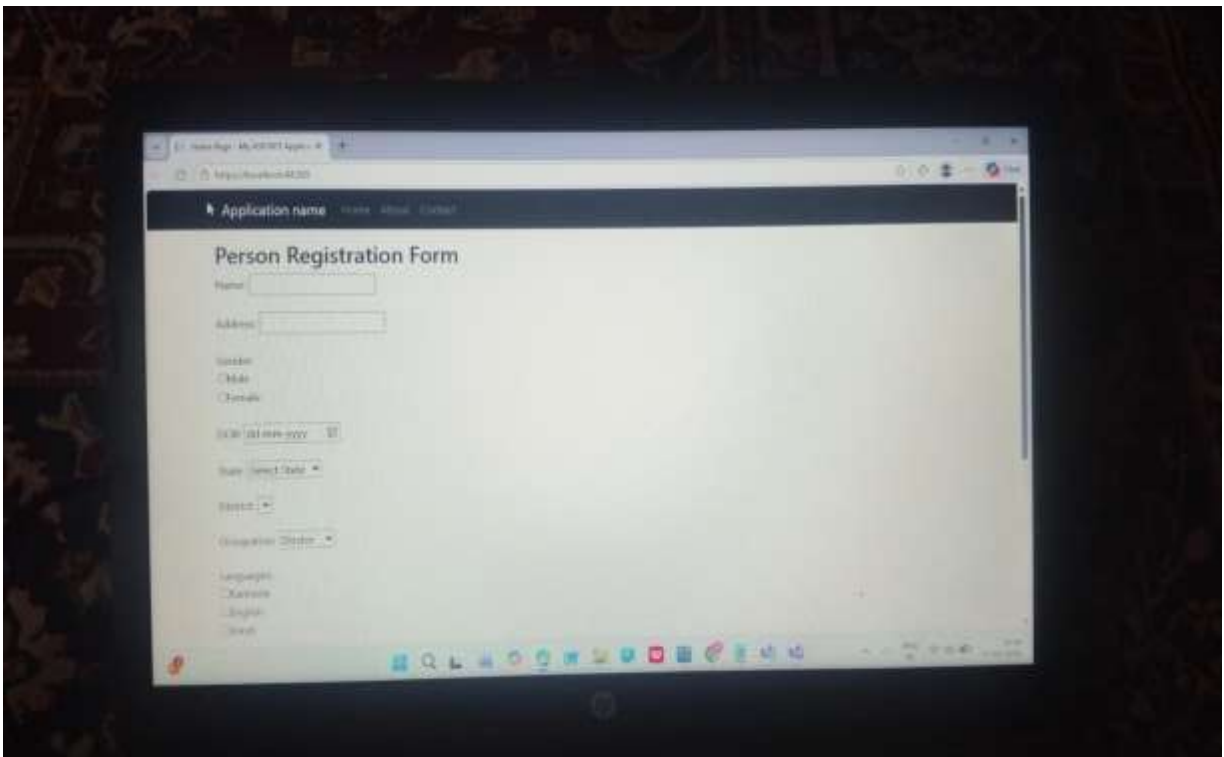
DELETE

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

Screenshots Section

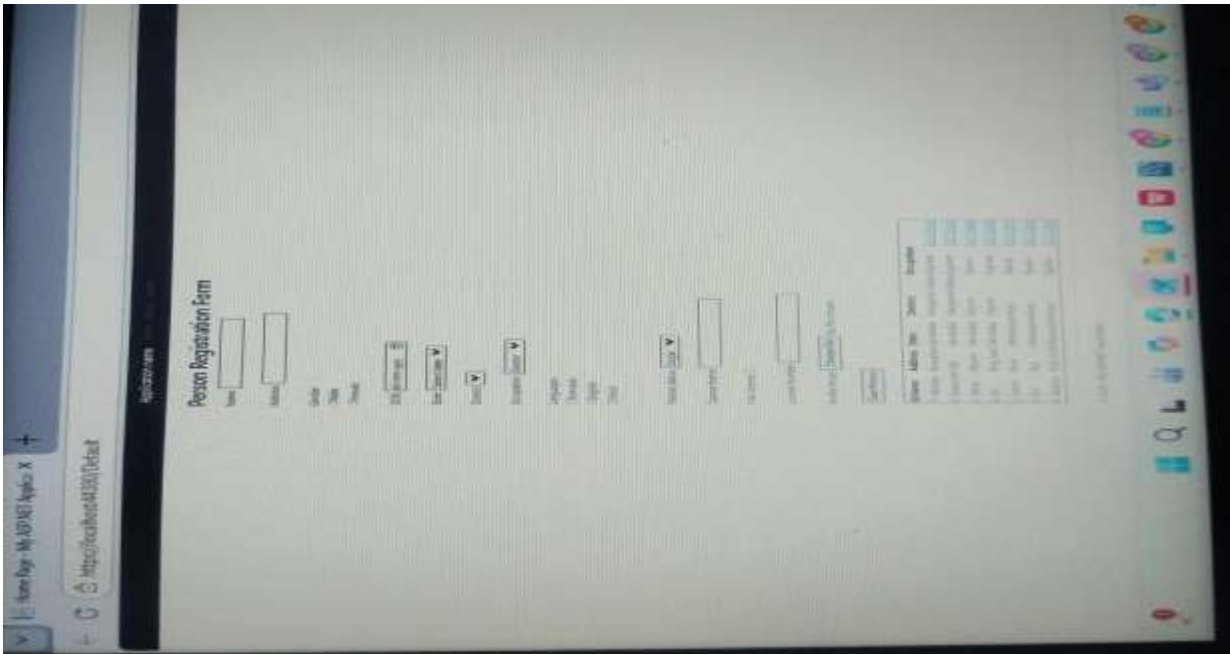
Screenshot 1: Registration Form

- 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:

 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	Bangalore	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	Sneha	Pune	Maharashtra	Pune	Teacher	Edit Delete
5	Adi	Bgl	Maharashtra	Pune	Teacher	Edit Delete
6	Swagata	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:

 Spouse Name:

 Has License: ☐

 License Number:

 Profile Photo: No file chosen

ID	Name	Address	State	District	Occupation	
1	Akshata	Ringmath	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	Sneha	Pune	Maharashtra	Pune	Teacher	Edit Delete
5	Adi	Bgl	Maharashtra	Pune	Teacher	Edit Delete
6	Swagata	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	Hiremathi	Karnataka	Bangalore	Urban Engineer	Edit Delete
2	Rahul	Mysore	Karnataka	Mysore	Doctor	Edit Delete
3	Snaha	Pune	Maharashtra	Pune	Teacher	Edit Delete
5	Adi	Bgl	Maharashtra	Pune	Teacher	Edit Delete
6	Swapna	Ring circle	Maharashtra	Pune	Teacher	Edit Delete
8	Ani	Ring circle	Karnataka	Mysore	Engineer	Edit Delete
10	Dia	New road	Maharashtra	Pune	Doctor	Edit Delete

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Database Output

Navigation: MANAGEMENT (Server Status, Client Connections, Users and Privileges, Status and System Variables, Data Export, Data Import/Restore), INSTANCE (Startup / Shutdown, Server Logs, Options File), PERFORMANCE (Dashboard, Performance Reports, Performance Schema Setup), Administration (Schemas), Subscriptions.

Administration - Data Export

Run CitizenDB; select * from Person;

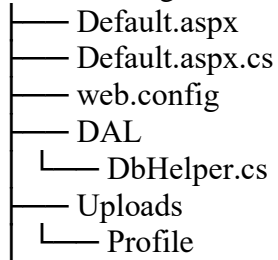
PersonID	Name	Address	Gender	DOB	StateID	DistrictID	OccupationID	MaritalStatus	SpouseName	HasLicense	LicenseNumber
1	Akshu	Hiremathi	Female	2001-01-01	1	1	2	Single		0	
2	Rahul	Mysore	Male	1995-08-25	1	2	1	Married	Prasa	1	75-22345
3	Snaha	Pune	Female	1998-03-10	2	3	3	Married	Arjun	0	0000
5	Adi	Bgl	Male	2000-02-03	2	3	5	Single		0	
6	Swapna	Ring circle	Female	2006-06-01	2	3	5	Single		0	
8	Ani	Ring road	Male	2014-01-03	1	2	2	Married	Beni	1	2468
10	Dia	New road	Female	2002-01-01	2	3	1	Single		0	

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

PersonManag



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