ADBS project 5.

Using Ampps server.

1. [50] **Basic functionality:** your application must support basic database operations such as looking-up, inserting, deleting, and updating. All these must be implemented in your application program and interact with the database through ODBC or JDBC.

Looking up:

Employee Table Browser

Add New Er	Add New Employee								
SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions	
123456785	2023-11-13	Ankitha Chavan	Ankitha		chavan	cftyu	1	Edit Delete	
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete	
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete	

Create Employee Record

SN: 123456788								
OOB: 11/13/2023 📋								
Name: Ashrita Dasari								
irst Name: Ashrita								
Middle Initial:								
ast Name: Dasari								
cfgtyuh								
Address:								
Employee Type: Salaried employee >								
Create Record								

Employee Table Browser

Add New Employee

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha		chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

Updating:

Employee Table Browser

Add New Employee

Update Record

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha		chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

Edit Employee Record SSN: 123456785 Middle Initial: |x | DOB: |11/13/2023 | D | Name: |Ankitha Chavan | First Name: |Ankitha | Last Name: |chavan | Address: |cftyu | Employee Type: |1



Employee Table Browser

Add New Employee									
SSN	DOB	Name	First Nam	e	Middle Initial	Last Name	Address	Employee Type	Actions
123456785	2023-11-13	Ankitha Chavan	Ankitha		x	chavan	cftyu	1	Edit Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu			jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita			Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha			Ravva	vvgty	1	Edit Delete

Deleting:

Employee Table Browser

Add New Employee

SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Act	ons
123456785	2023-11-13	Ankitha Chavan	Ankitha	x	chavan	cftyu	1	Edit I	Delete
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit	<u>Delete</u>
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit I	Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit 1	Delete

Employee Table Browser

Add New Employee

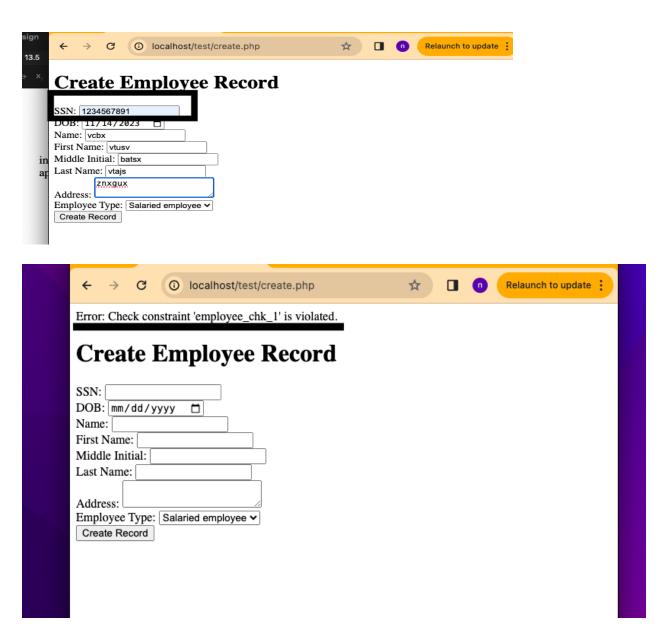
SSN	DOB	Name	First Name	Middle Initial	Last Name	Address	Employee Type	Actions
123456786	2023-11-13	Bhanu jupidi	Bhanu		jupidi	xgst	1	Edit Delete
123456788	2023-11-13	Ashrita Dasari	Ashrita		Dasari	cfgtyuh	1	Edit Delete
123456789	2023-11-10	Neetha Ravva	Neetha		Ravva	vvgty	1	Edit Delete

2. [20] **Web based:** users can access your database on line from a web browser. You can implement it using PHP/WAMP/MAMP/LAMP (or Java servlets, MS SQL server, etc.).





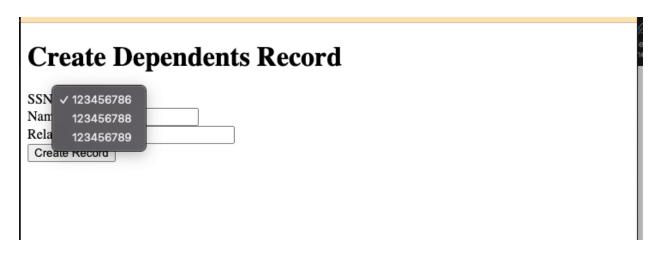
3.Error checking: your application should be robust enough against bad inputs. For example, a ssn must be exactly 9 digits etc. Is the checking done by application or by database? Explain the trade-offs and give examples of by both.



The error checking is done by database and not by the application. If the error checking is done by database the error is checked at all the places where the table is used. If error check is done by application coding then error will be checked only for form level.

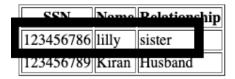
3.Referential integrity constraint: let the user see the available input values at runtime (e.g. an existing ssn) during insertion and cascade deletes.

In dependents table . SSN has lookup value from employee table



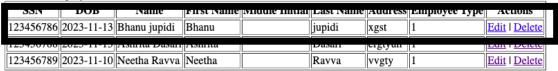
Cascade delete:

Dependents Table



Employee Table Browser

Add New Employee



In dependents table also record got deleted automatically related to SSN number 123456786

Dependents Table

SSN	Name	Relationship
123456789	Kiran	Husband