

Faculty of Technology Department of Computer Engineering Dharmsinh Desai University

B.Tech CE Semester-VI Subject: (CE-620) Object Oriented Soft. Engg.

Α

PROJECT REPORT ON

E-Tender

a Bidding Web Application

By

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CERTIFICATE

This is to certify that the practical / term work carried out in the subject of

Object Oriented Soft. Engg. and recorded in this journal is the bonafide work of

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1. Abstract

The **E-Tender a online Bidding Application** is a web application to bid on published tenders. The main objective is to bid on tender and get chance to take project without doing any manual work and without going to office it's save lots of time of user.

Brief Introduction

The Online Bidding is an application that give chance companies to bid on published tenders and take a project. In this application company can login through email and password. They can see all available tenders and select the tender to bid. User can publish new tenders and close the tender also they can see bids on their tenders. The purpose of this application is to transform the manual process of bidding to a computerized system.

Tools/Technologies Used

Technologies:

- .Net Core
- Entity Framework

Tools:

- Visual Studio 2019
- Umlet

3. Software Requirement Specifications

1 User Functionality

R.1 Login

- \Rightarrow All the user have to login to run all functionalities.
- **⇒** Input:
 - o E-mail address
 - o Password
- **⇒** Output:

Home page if credentials are correct.

R.2 Registration

- ⇒ For new user he/she have to create account
- **⇒** Input:
 - o All details of user
- **⇒** Output:
 - Successful message for registration

R.3 Post Tender

- ⇒ User can generate new tender for their projects.
- **⇒** Input:
 - o All details of tender
- **⇒** Output:
 - o Successful message

R.4 View response to tender

- ⇒ User can see all bids done in their particular tender
- **⇒ Input:**
 - Selection of the tender
- **⇒** Output:
 - o List of all responses.

R.5 Close Tender

- ⇒ User can close tender for further bidding.
- **⇒** Input:
 - Selection of tender
- **⇒** Output
 - Successful message

R.6 Logout

- ⇒ User can logout from the system
- **⇒** Input:
 - Selection to logout
- \Rightarrow Output:
 - o Login Screen

2. Company Functionality

R.1 Login

- \Rightarrow All the user have to login to run all functionalities.
- **⇒** Input:
 - o E-mail address
 - o Password
- **⇒** Output:

Home page if credentials are correct.

R.2 Logout

- ⇒ User can logout from the system
- **⇒** Input:
 - Selection to logout
- **⇒** Output:
 - o Login Screen

R.3 Registration

- ⇒ For new user he/she have to create account
- **⇒** Input:
 - o All details of user
- **⇒** Output:
 - Successful message for registration

R.4 View Tender to bid

- ⇒ Company can see all available tenders
- **⇒** Input:
 - Selection for see all tender
- **⇒ Output:**
 - List of available tender

R.5 Response to tender

- ⇒ Company can bid in tenders
- **⇒** Input:
 - o Information required for bidding
- **⇔** Output:
 - Successful message

R.6 View Assigned Tender

- ⇒ Company can see all their assigned tender
- **⇒** Input:
 - Selection to see all assigned tender
- **⇒** Output:
 - List of assigned tender

3. Admin Functionality

R.1 Login

- \Rightarrow All the admin have to login to run all functionalities.
- **⇒** Input:
 - o E-mail address
 - o Password
- **⇒** Output:

Home page if credentials are correct.

R.2 Logout

- ⇒ Admin can logout from the system
- **⇒** Input:
 - Selection to logout
- **⇒** Output:
 - o Login Screen

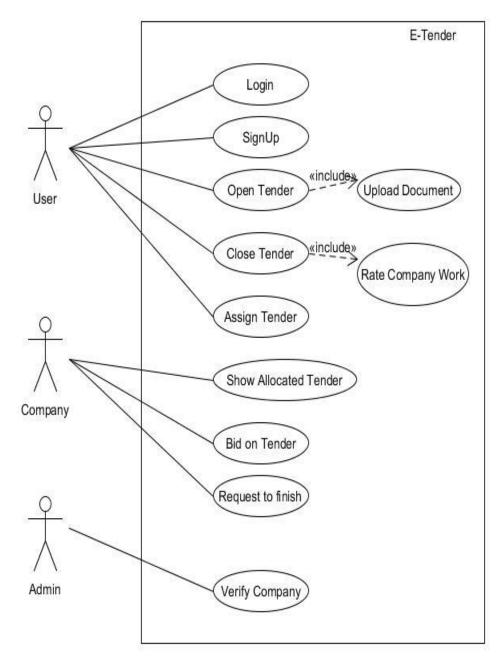
R.3 Verification of company

- ⇒ Admin have to verify all companies
- **⇒** Input:
 - Selection to verify
- **⇒** Output:
 - o Successful message.

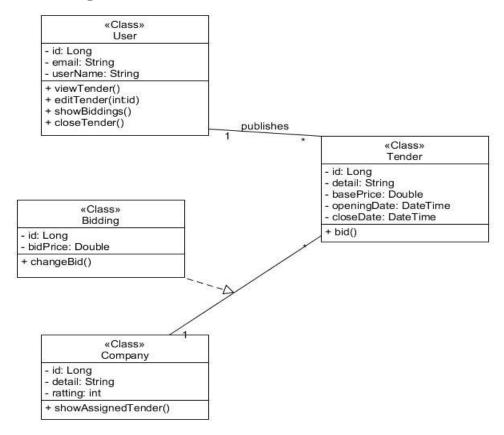
4.

Design

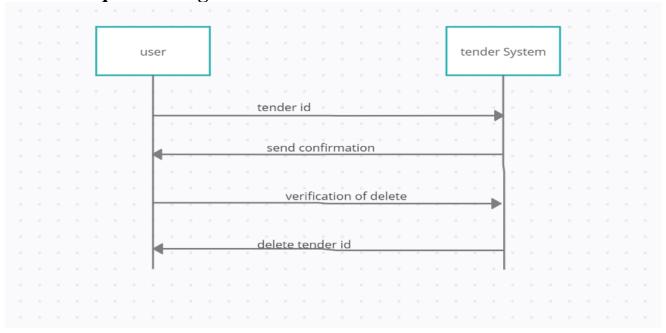
1. Use Case Diagram



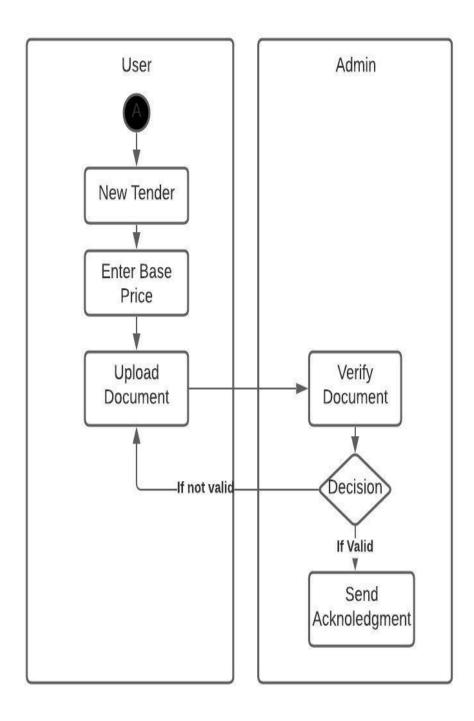
2. Class Diagram



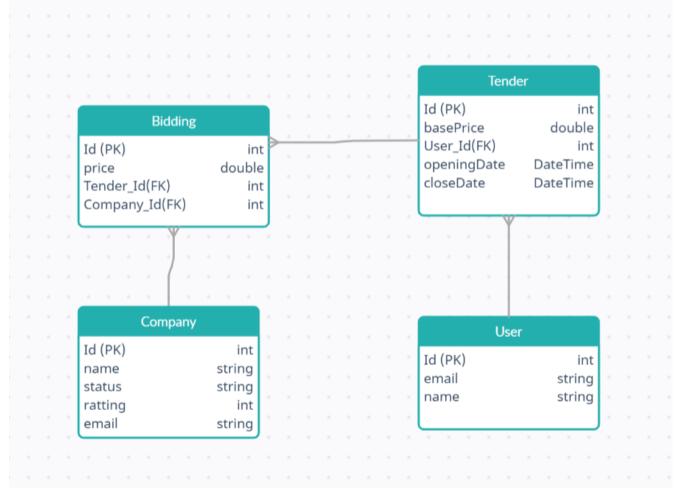
3. Sequence Diagram



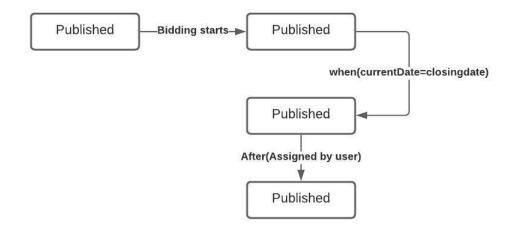
4. Activity Diagram



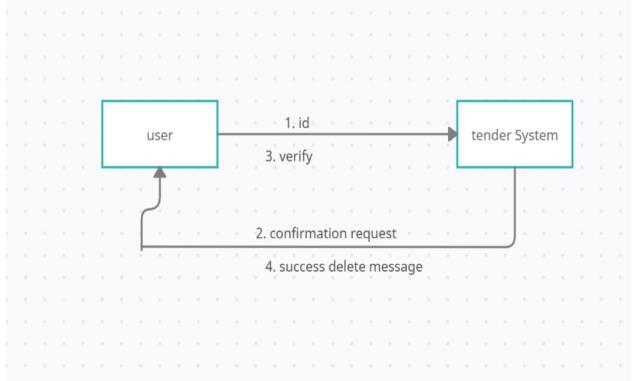
5. E-R Diagram



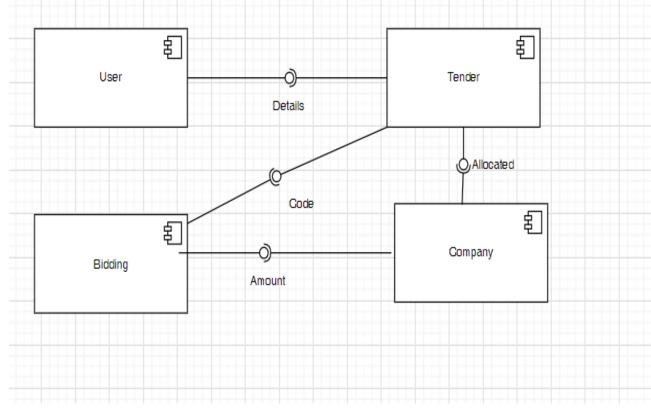
6. State Diagram



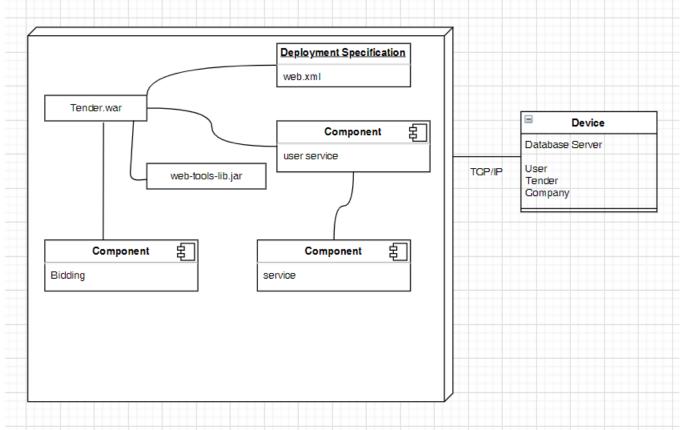
7. Collaboration Diagram



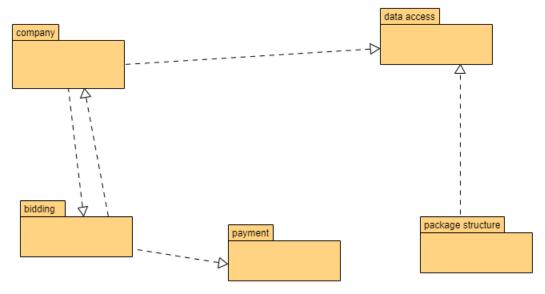
8. Component Diagram



9. Deployment Diagram



10. Package Diagram



11. Data Dictionary

	User						
Sr No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Reference
1	User_Id	INT	20	Yes	Yes	PK	
2	username	Varchar	20	Yes	No		
3	email	Varchar	20	Yes	Yes		

	Company						
Sr No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Reference
1	Company_Id	INT	20	Yes	Yes	PK	
2	details	Varchar	100	Yes	No		
3	ratting	int	20	Yes	No		

Tender							
Sr No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Reference
1	Tender_Id	INT	20	Yes	Yes	PK	
2	details	Varchar	20	Yes	No		
3	basePrice	Double	10	Yes	No		
4	openingDate	DateTime	-	Yes	No		
5	closeDate	DateTime	1	Yes	No		
6	User_Id	INT	20	Yes	Yes	FK	

	Bidding						
Sr No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Reference
1	Bid_Id	INT	20	Yes	Yes	PK	
2	bidPrice	Double	10	Yes	No		
3	Tender_Id	INT	20	Yes	No	FK	
4	Company_Id	INT	20	Yes	No	FK	

Implementation Details

Login and Sign Up Module:

User must enter his/her username, email id and a password to sign up. To login on the web application user must enter a valid email id and password. We have used Identity User in .net core framework to validate user.

Tender Module:

12.

For user to add new tender he/she has to add all details in html form then post so mvc controller can detect the model and using Entity Framework system add new data in table which is stored in sql server.

Bidding Module:

When company clicks on bid form is visible in which company has to add details for bid. Then Entity Framework can add bid to bidding table.

Admin Module:

Admin can see all new companies and need to verify them.

13. Testing

I have done manual testing and some test cases are listed below.

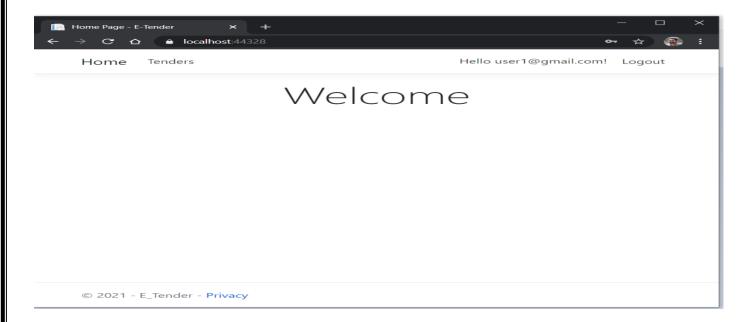
Test Cases:

Module name	Field Input	Expected output	Actual output
Login	Username & Password	Redirect to	Redirect to
	(true input)	Home page	Home page
Login	Username & Password	Error message and	Error message and
	(wrong password)	Stay to login page	Stay to login page
SignUp	Email(email which	Warning message and	Warning message and
	Is already taken)	stay to signup page	stay to signup page
Tender Details	Selection of	Tender details	Tender details
	valid tender	appear on screen	appear on screen
Bidding Details	Select valid bid	Bidding Details	Bidding Details appear
		appear on screen	on screen
Bidding Details	Add new Bid in valid	Successful message	Successful message
	tender		

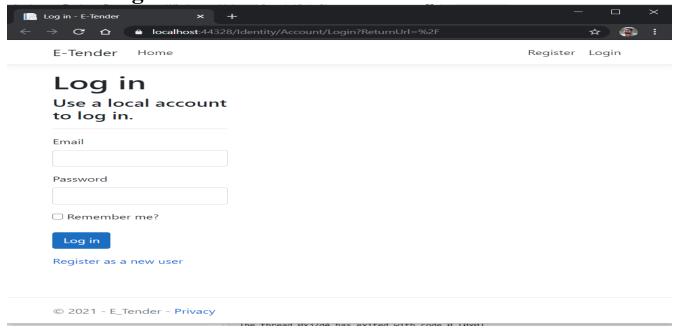
Screen Shots of the system

1. User Home Page

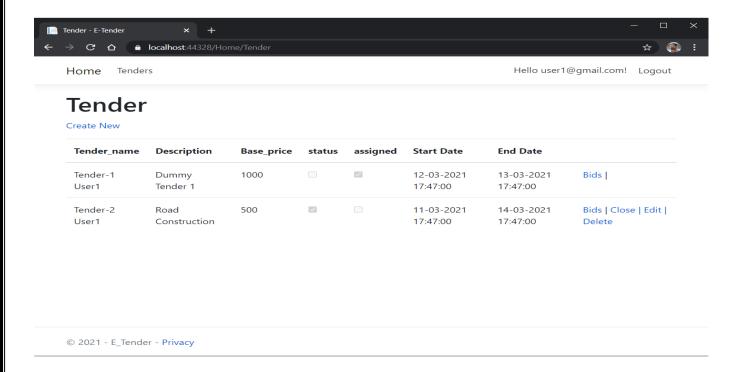
14.



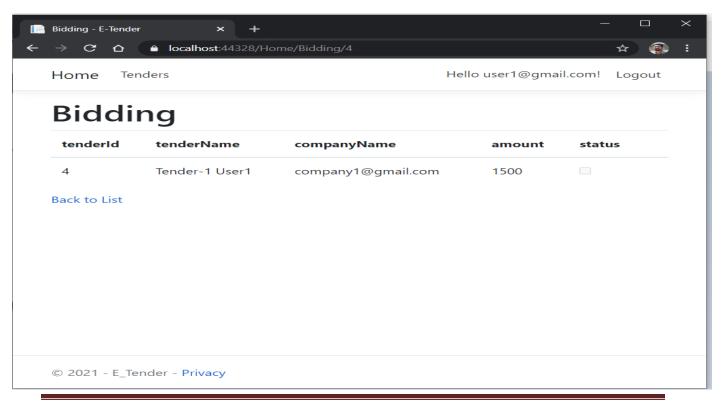
2. Login



3. Tender List in User

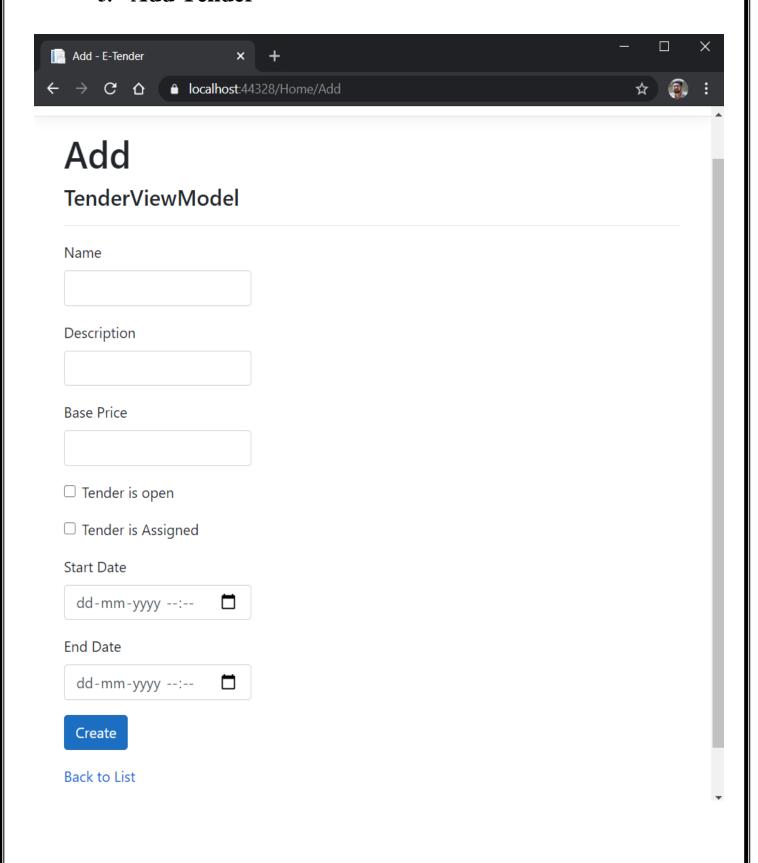


4. Bid List in tender



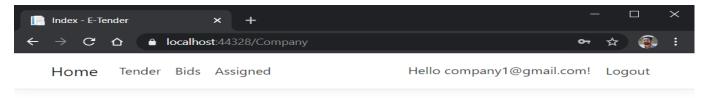
5. Add Tender

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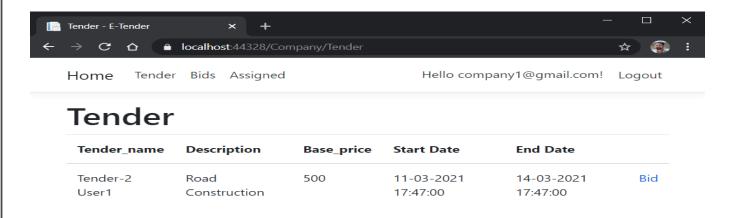
Page 22

6. Company Home Screen

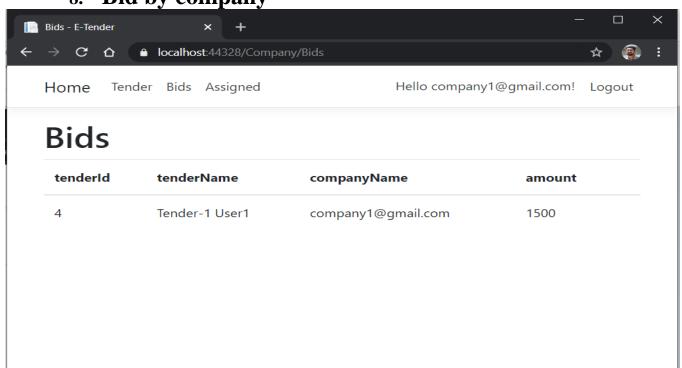


Welcome to E-Tender

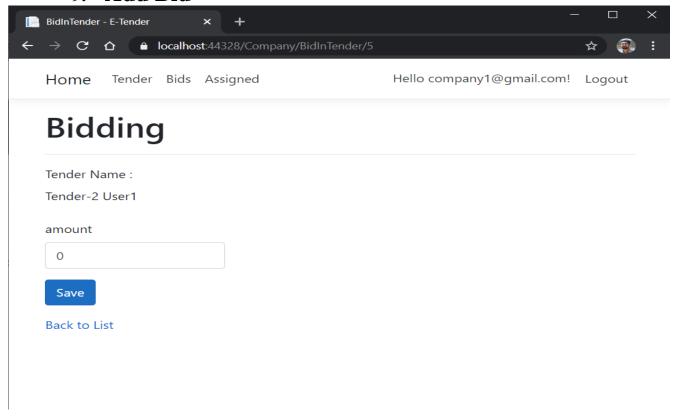
7. Tender list in company



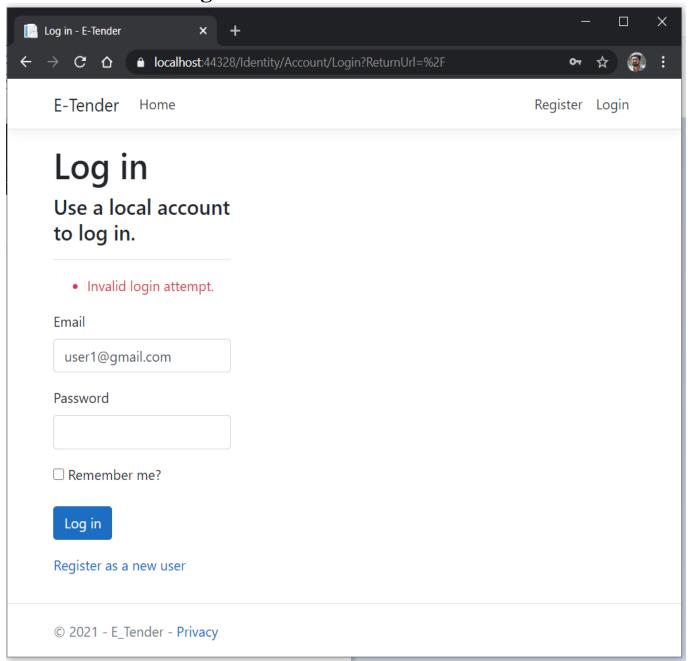
8. Bid by company



9. Add Bid



10. Invalid login



15. Conclusion

Login functionality was successfully implemented by the use of Identity in .Net Core. Home page animation, footer was successfully implemented using CSS, Bootstra. Retrieving of tenders is implemented using repositories. tender details page was successfully implemented by fetching the details from database and displayed on the browser using Razor pages. User can add, delete and update tender details and see all bids details. Company can see all tenders and can bid on available tenders. They can also see their previous bids and also see assigned tenders.

9. Limitation and Future Extension

Limitations:

- Payment module is not implemented.
- Admin cannot see statistics of users.
- Document upload is not implemented

Future Extension:

- User and Company can chat with each other.
- User can give ratting to companies work.

10. Bibliography

- https://docs.microsoft.com/en-us/dotnet/fundamentals/
- https://stackoverflow.com/