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Course: Software Engineering

Lab FAT

1. Social Network for PET Owners

This would connect pet owners with other pet owners. It would allow them to chat and exchange advice. Businesses could promote their services through curated and paid advertising and promotion.

1. Identify 5 functional and non-functional requirements for the above scenario.

2. Tabulate 5 test cases for the above scenario.

SOLUTION:

1) FUNCTIONAL REQUIREMENTS

- Sign-in, Sign-up and Sign-out features for proper user authentication
- Advert Management system to control the adverts on the application. Advert filter for more user targeted ads, so the ads are relevant to the user's specific interests.
- Messaging protocol to enable the users to chat with each other.
- User profile management for updating personal information and view other user's profile.
- Clustering of users with similar interests and suggest them to each other

NON-FUNCTIONAL REQUIREMENTS

- Session and cookie management system for easy sign-in and sign-out and continuity in using application between sessions.
- Minimalistic Design without complicated UI for easy access of functional features.
- The application, especially the messaging system should be able to handle large number of requests.
- The latency of the messaging system should be minimized and messaging system should support multiple languages.
- Unsuccessful login attempts by the user must be audited as suspicious and 'forgot password' feature to help users recover their accounts in case they do really forget their password.

2) TEST CASES

Test Case ID	Test Scenario	Test Case	Test Steps	Test Data	Expected Result	Output Received
1	Verify Login	Valid Username Valid Password	Enter username. Enter password. Login	Valid Username Valid Password	Successful Login	Redirected to user profile page
2	Verify Login	Invalid Username Valid Password	Enter username. Enter password. Login	Invalid Username Valid Password	Unsuccessful Login "Invalid username and password"	Redirected back to login page
3	Verify Login	Valid Username Invalid Password	Enter username. Enter password. Login	Valid Username Invalid Password	Unsuccessful Login "Invalid username and password"	Redirected back to login page
4	Verify Login	Invalid Username Invalid Password	Enter username. Enter password. Login	Invalid Username Invalid Password	Unsuccessful Login "Invalid username and password"	Redirected back to login page
5	Message functionality	Any message	Enter any text	Message delivered	Message delivered	Message delivered

2. Design the use case diagram for the **Social Network for PET Owners using an online tool**

Social Network for PET Owners

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SOLUTION:

Visual paradigm generated link lagged the system that's why I am sharing the .vpd file itself with instructions

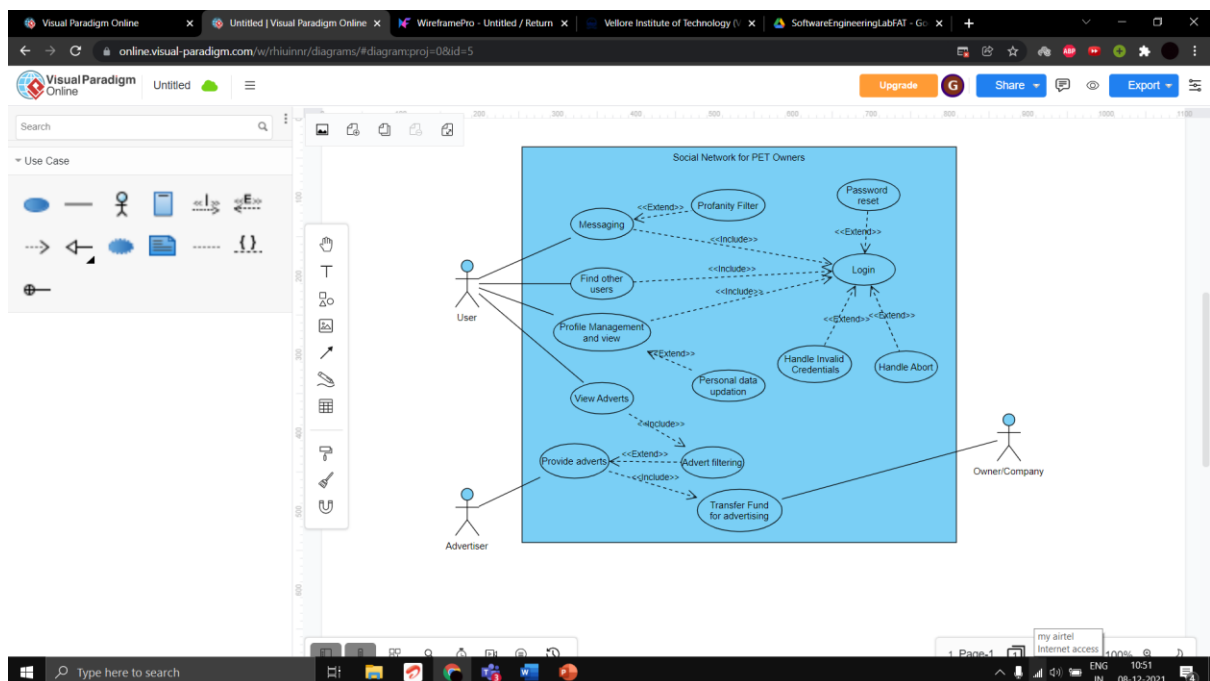
Link to the diagram: https://drive.google.com/file/d/1B_J4g3KJOyLgESeQugk2cEVh4Heljvnx/view?usp=sharing

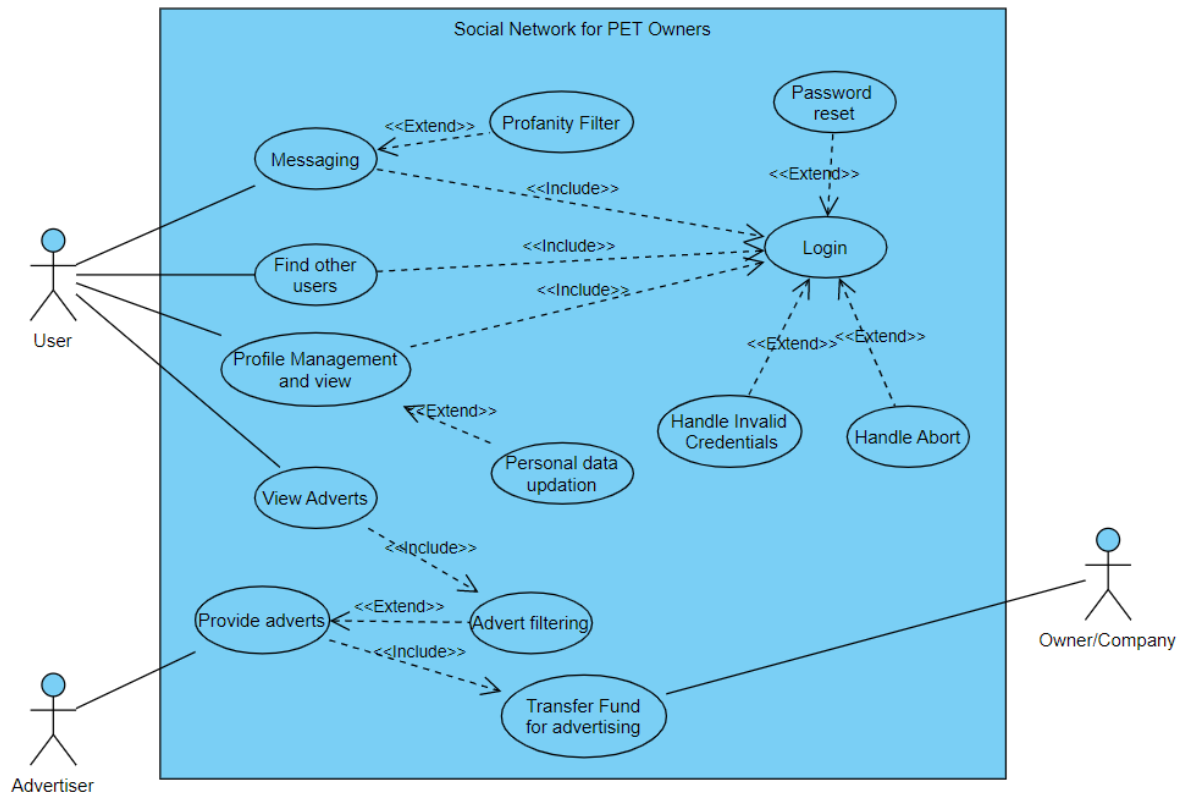
Steps: 1) Download the LabFAT2.vpd file

2) Head over to Visual paradigm online and import the downloaded .vpd file to view the diagram.

Tool Used: [Visual Paradigm Online](https://visual-paradigm.com/)

Screenshot:





3) Design the user interface design for **Social Network for PET Owners using an online tool**

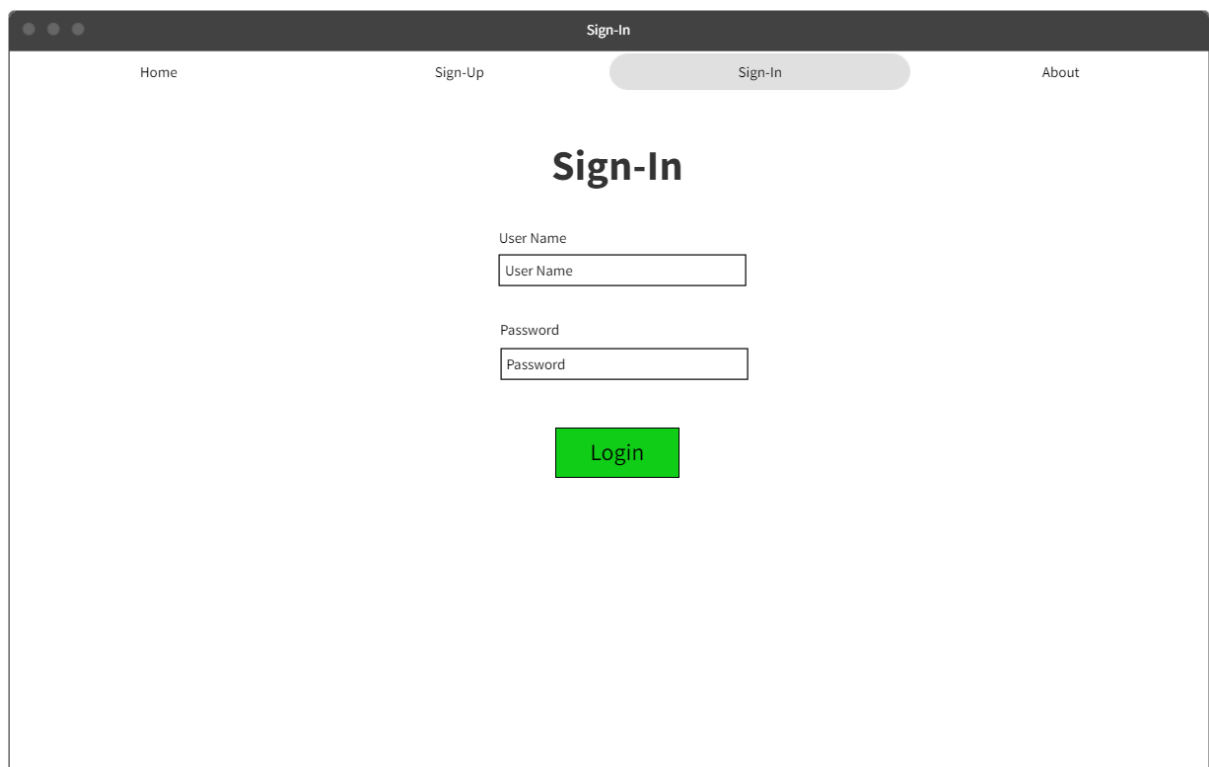
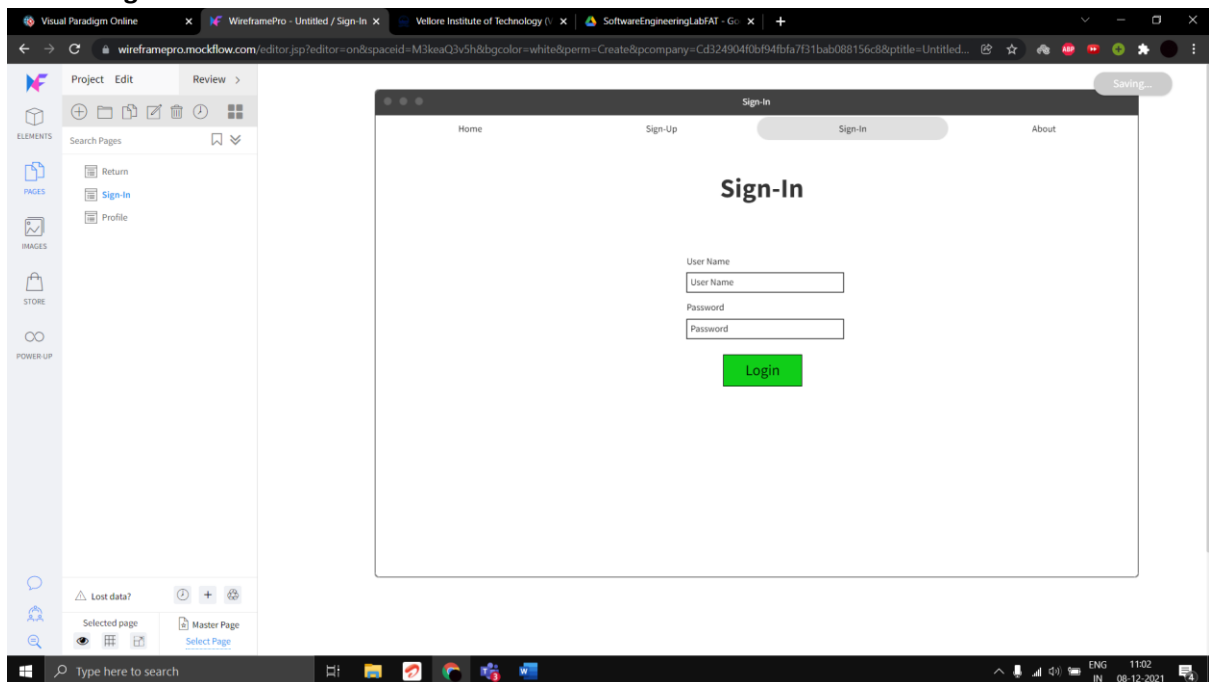
Social Network for PET Owners

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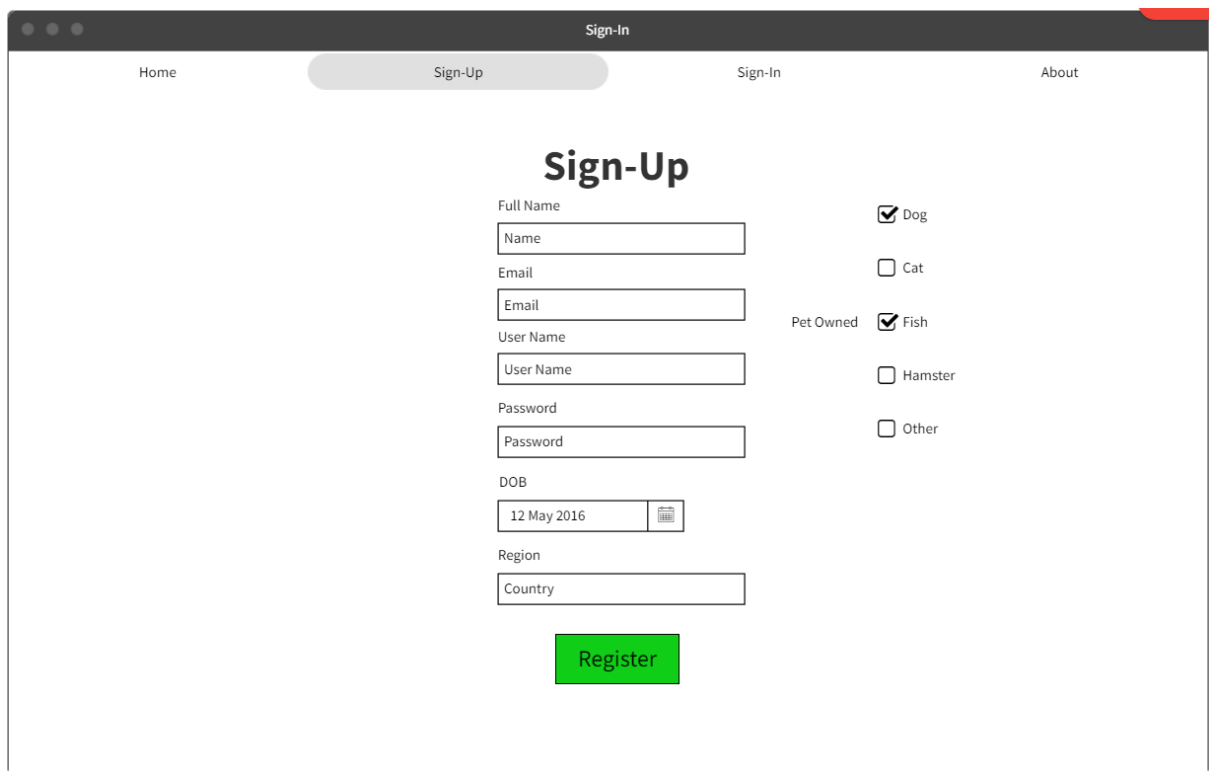
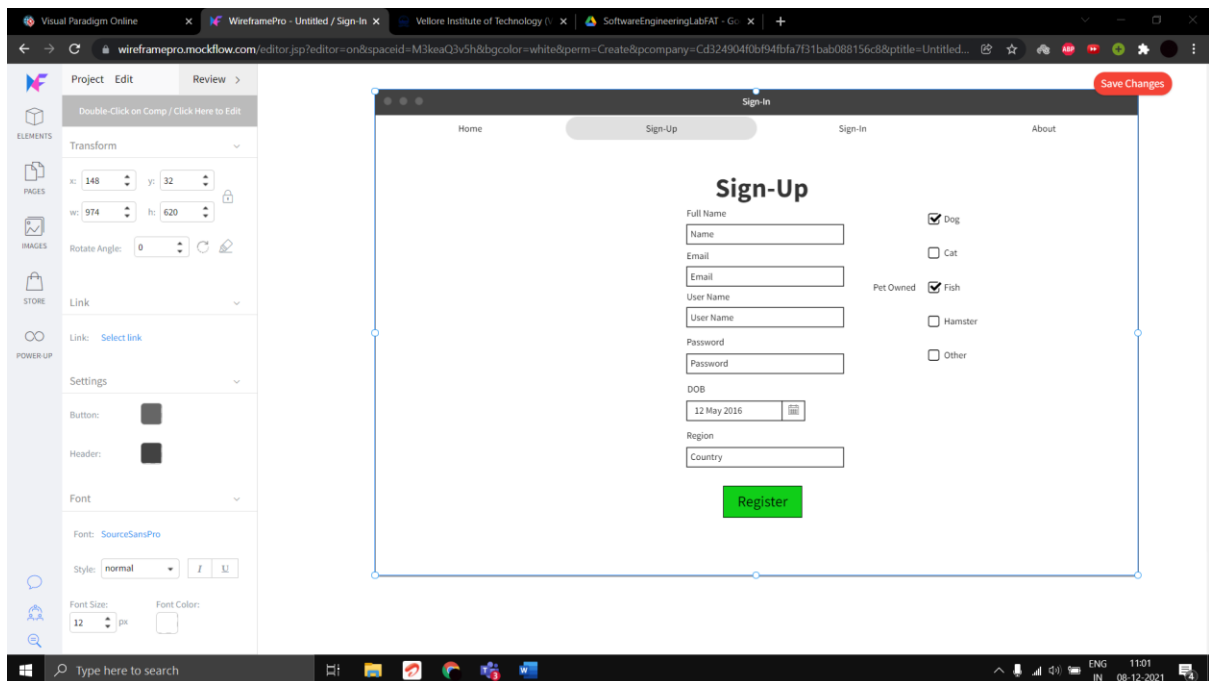
SOLUTION:

SCREENSHOTS

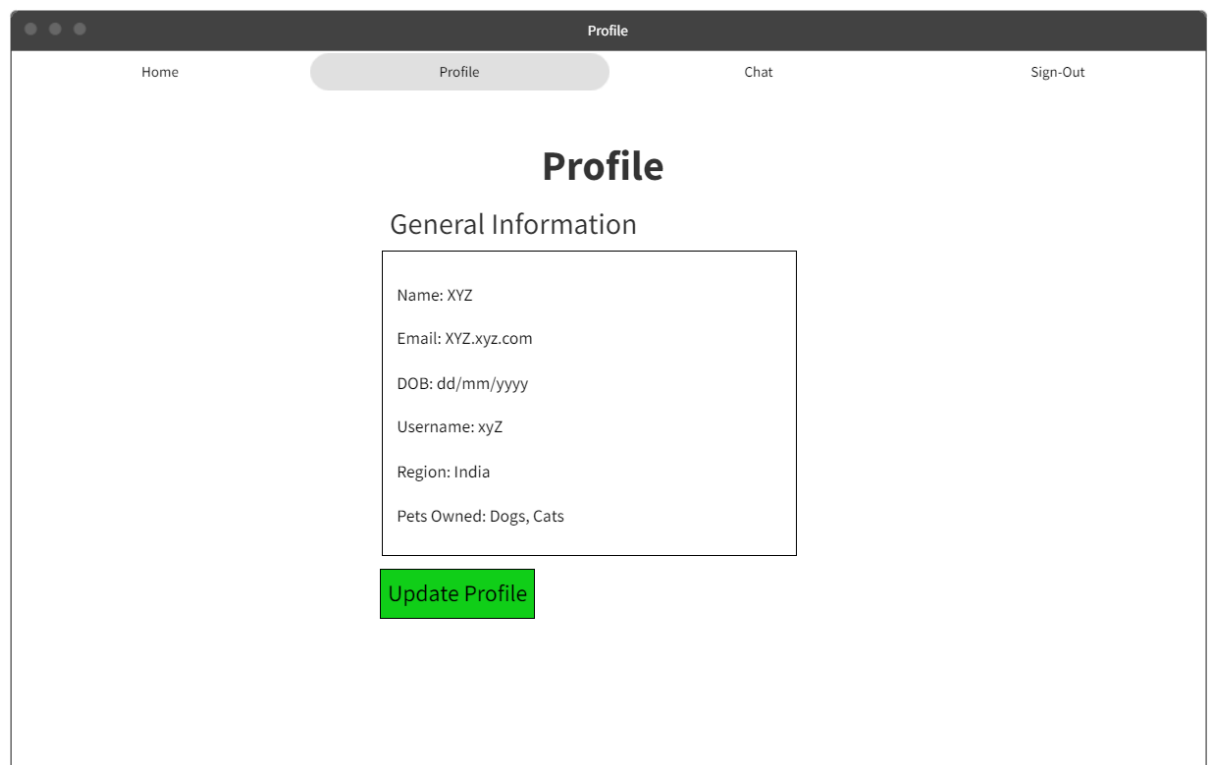
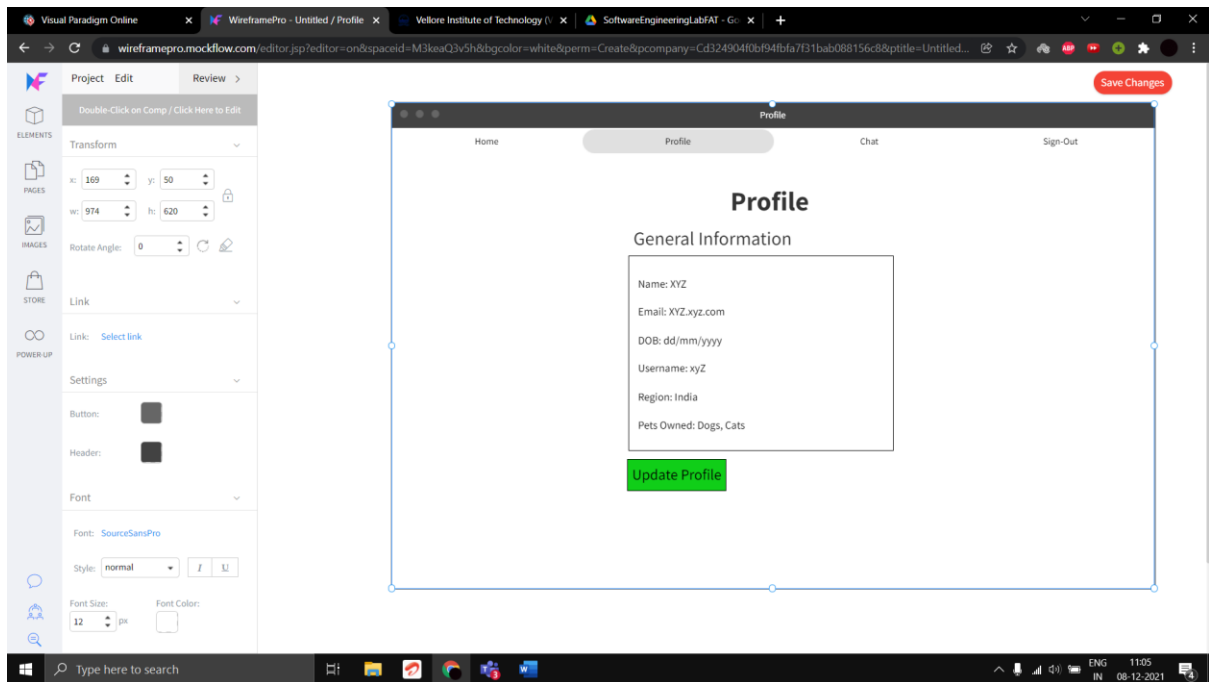
Sign-In



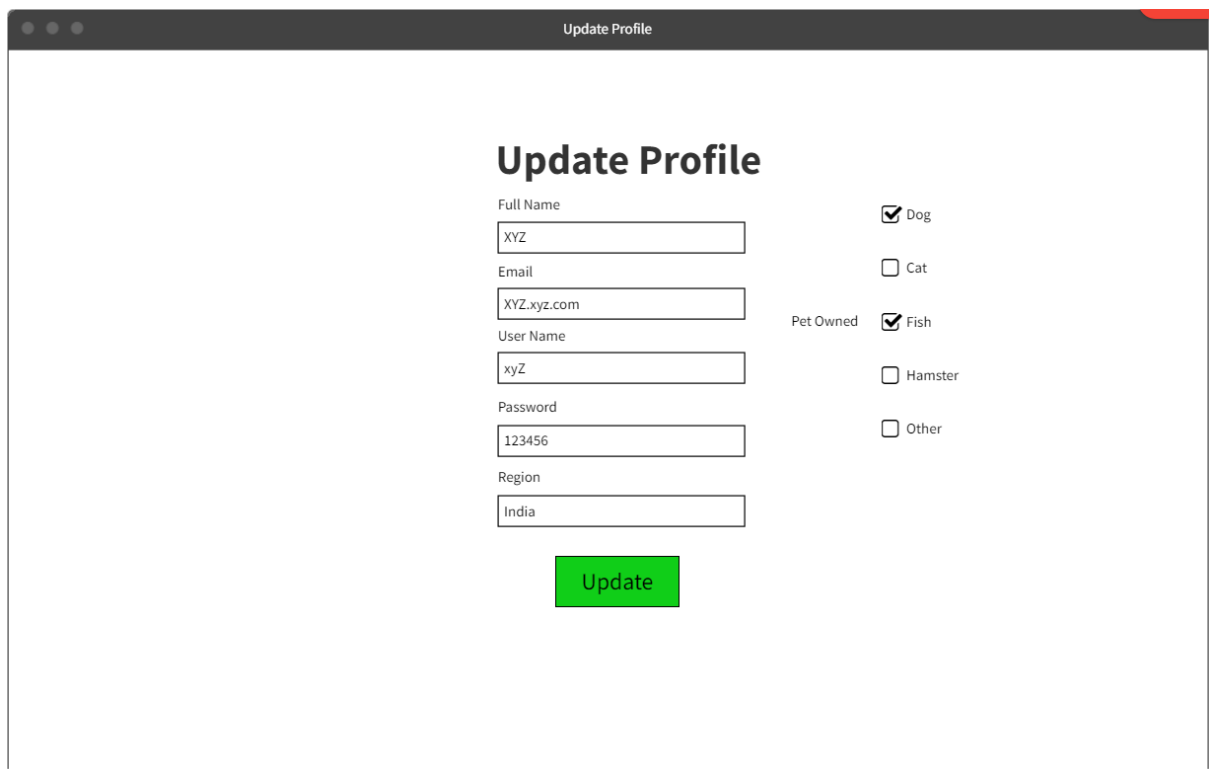
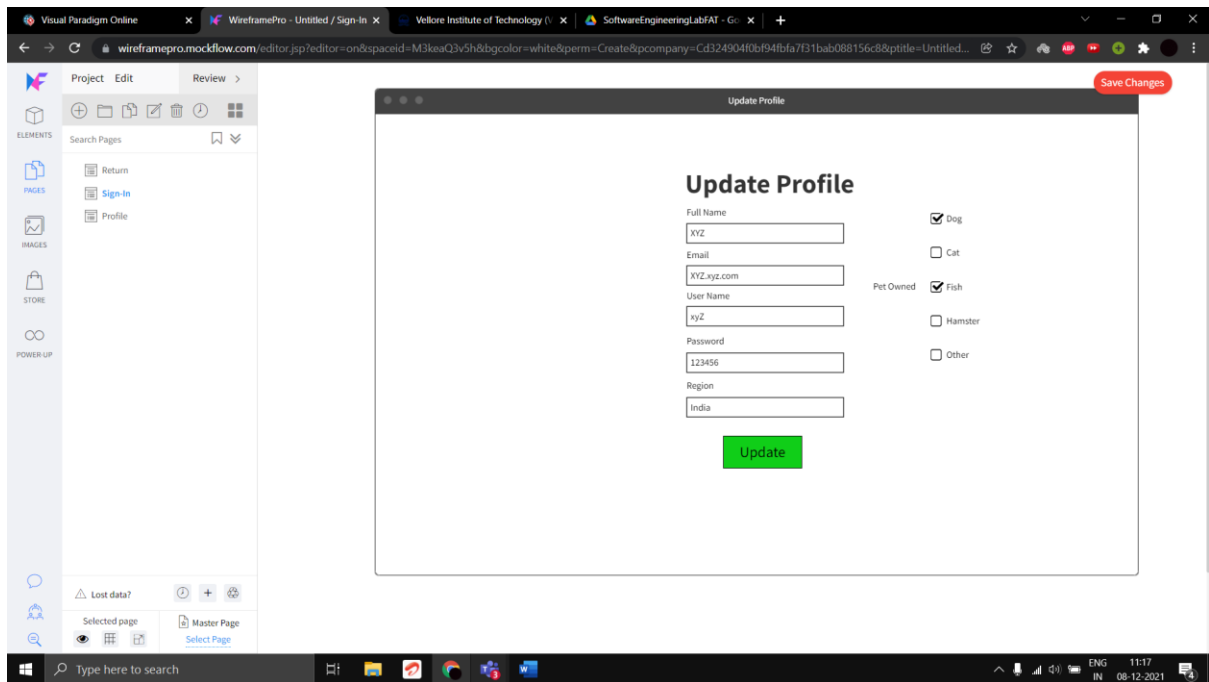
Sign-Up



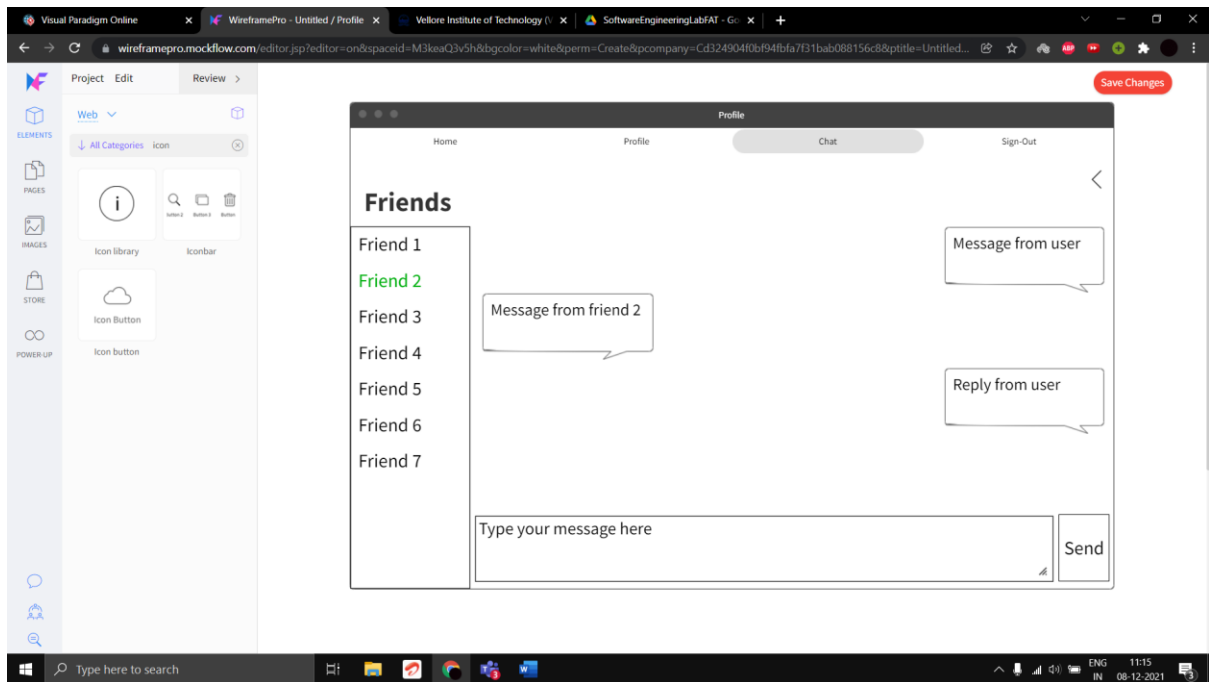
Profile Page



Update Profile



Messaging Application



Tool Used: [Wireframepro mockflow](https://www.wireframepro.com/mockflow)