

Facebook Clone (DeathNote)

Introduction

This is web application built with asp.net core using the Model-View-Controller (MVC) architectural pattern.

Our application is a small social media platform that has basic functionality needed for such platform such as login, edit user profile, add friends, and post blogs on your timeline with moderate reliability and performance kept in mind while following the clean code rules and not violating any principles.

What is MVC?

The Model-View-Controller (MVC) is an architectural pattern that separates an application into three main logical components: the model, the view, and the controller. Each of these components are built to handle specific development aspects of an application. MVC is one of the most frequently used industry-standard web development framework to create scalable and extensible projects.

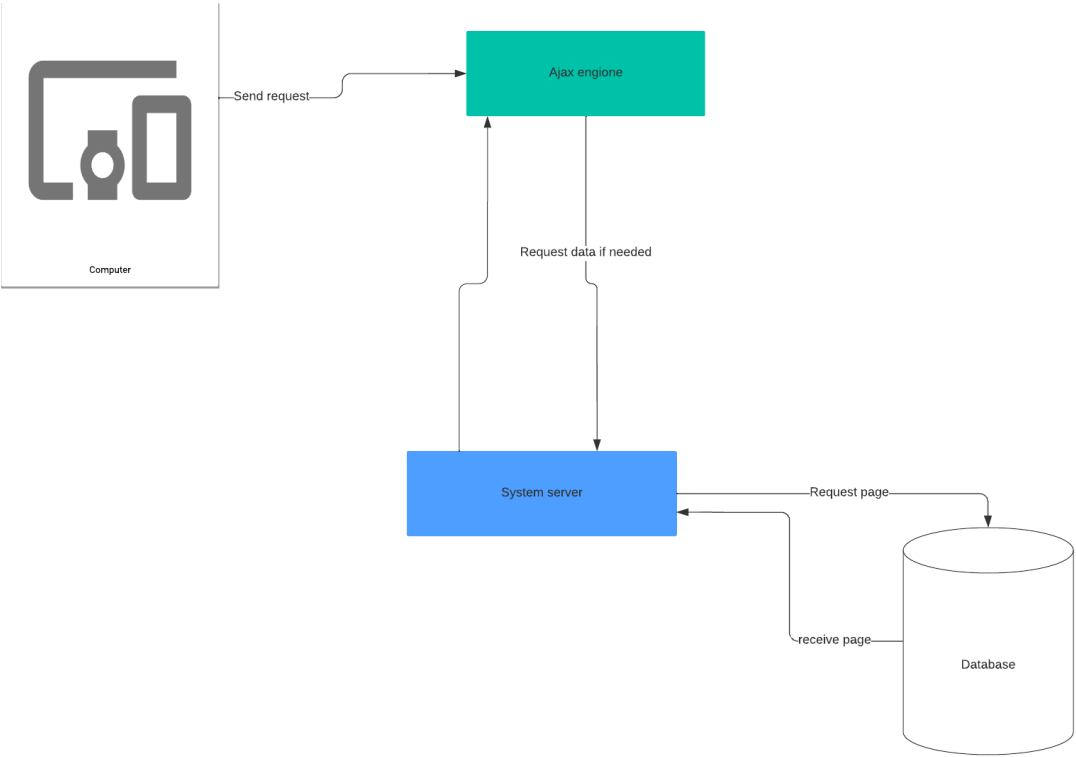
Application Functionality

Functional Requirements and Non

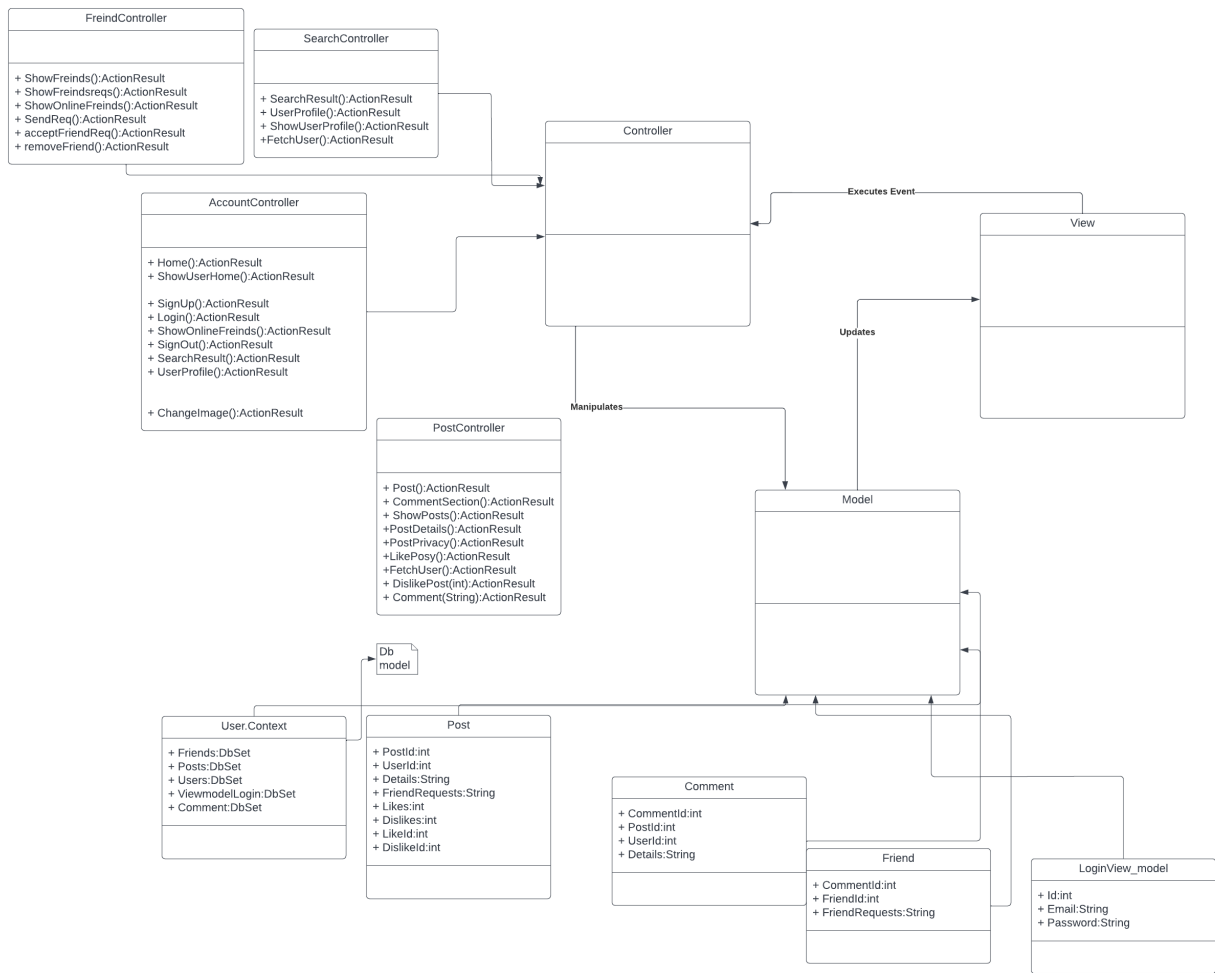
Functional Requirement no.	Function Requirement Description
Fr1	A person should be able to create an account on our platform
Fr2	User should be able to login to his own account
Fr3	User can view and change his personal information
Fr4	User can view his own timeline of posts
Fr5	User can search for others user by email or mobile
Fr6	User can choose to either accept or decline friend requests.
Fr7	User can create and post posts.
Fr8	User can set post restriction
Fr9	User can like and dislike his/her friend's posts and also write comments

Non-Functional Requirement	Function Requirement Description
Security	1-Systems may require users to create accounts to access applications that store information and display profiles. 2- An application may not grant access until the user creates a strong password.
Speed	The time it takes to access and retrieve data is considerably fast.
Readability	Strict policies are used to make sure our application is easy to use and understand for new users.
Capacity	Considerable effort is put in to make sure no wastage of storage.
Portability	Our application is optimized for usage on phone, tablets and computers.

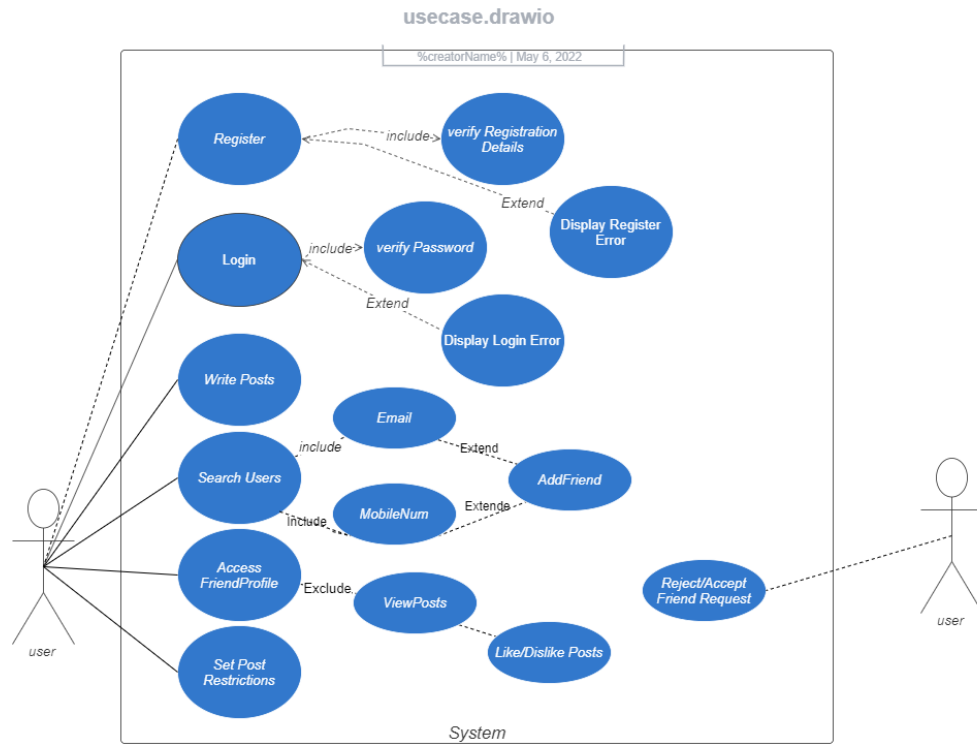
System Architecture



Class diagram

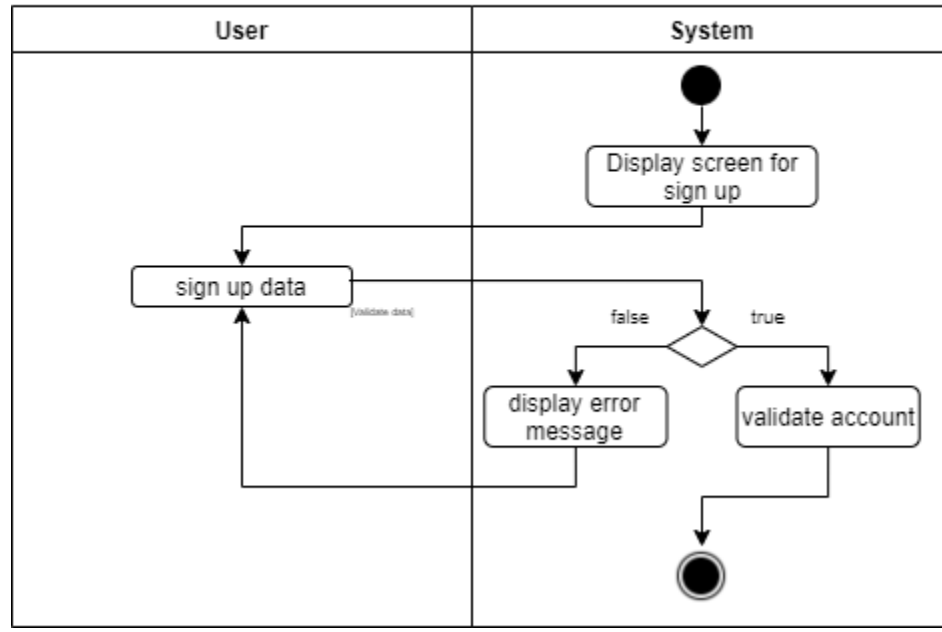


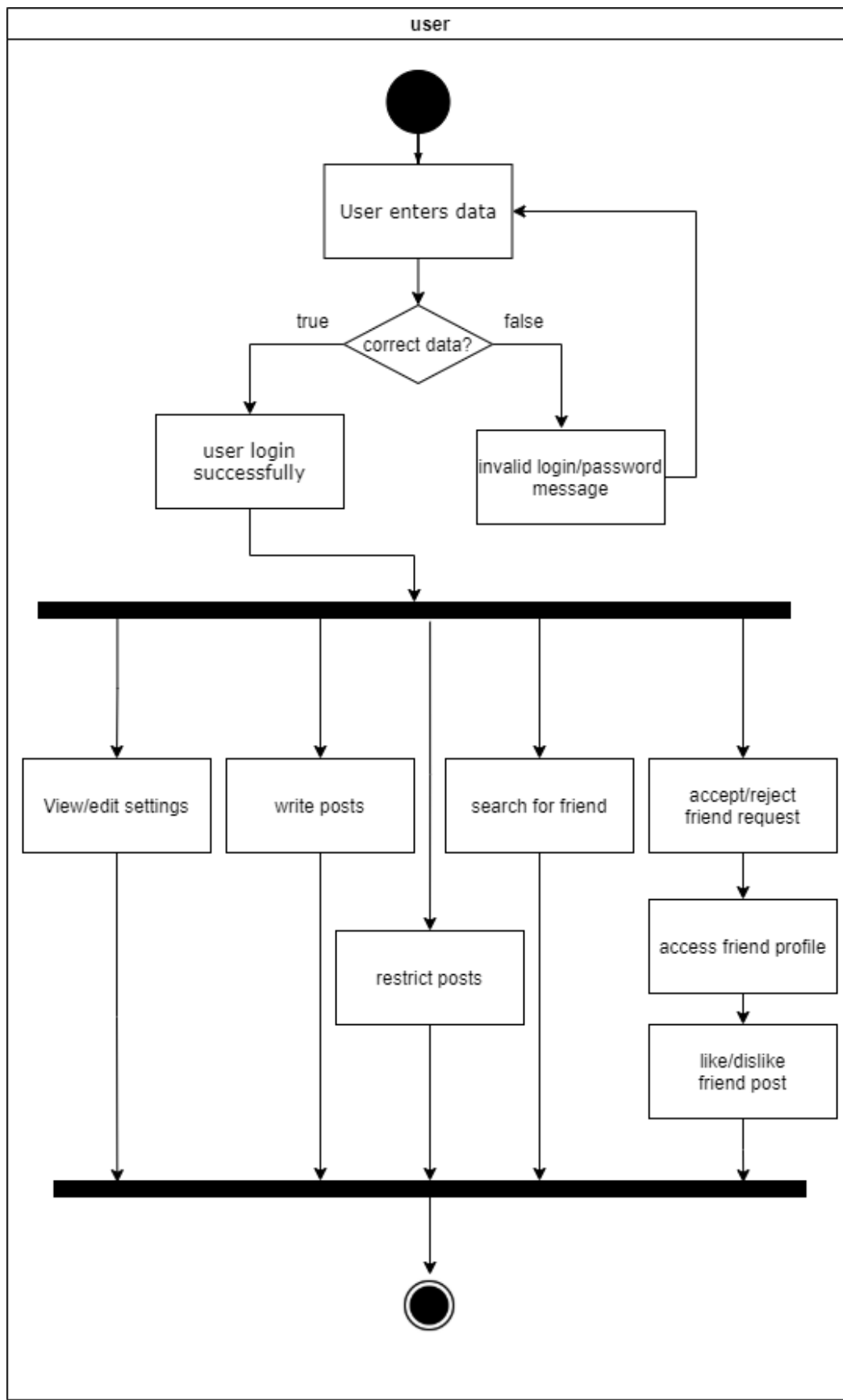
Use Case



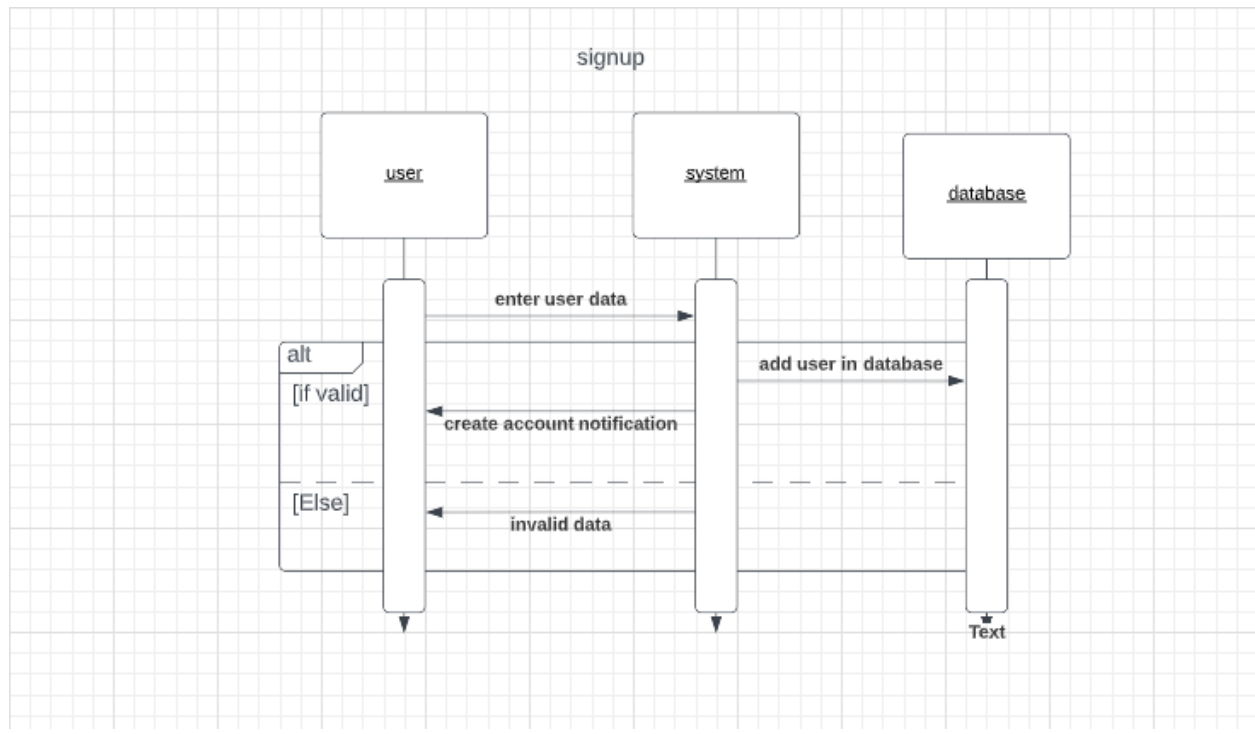
Activity Diagram

Sign up diagram

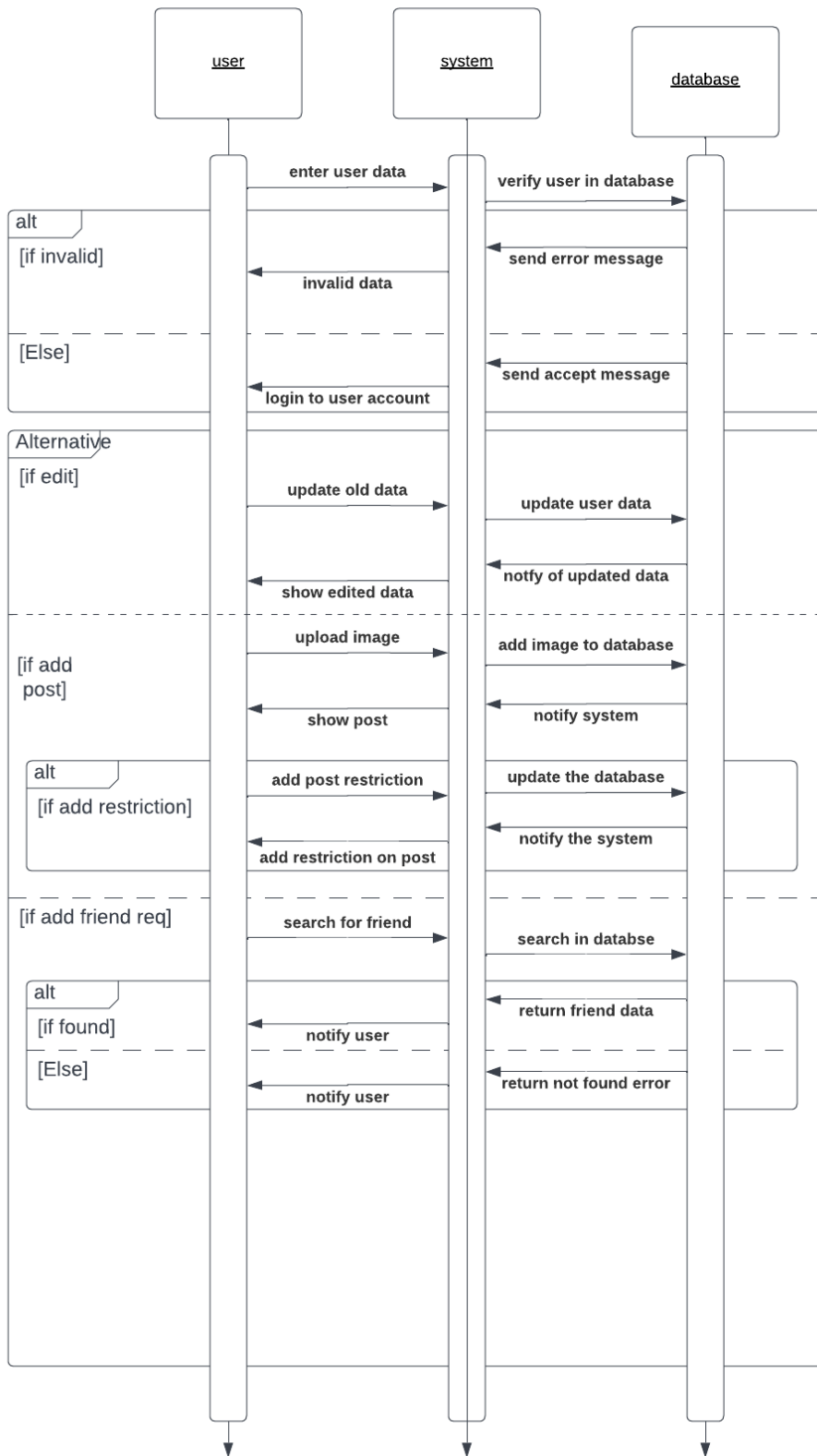




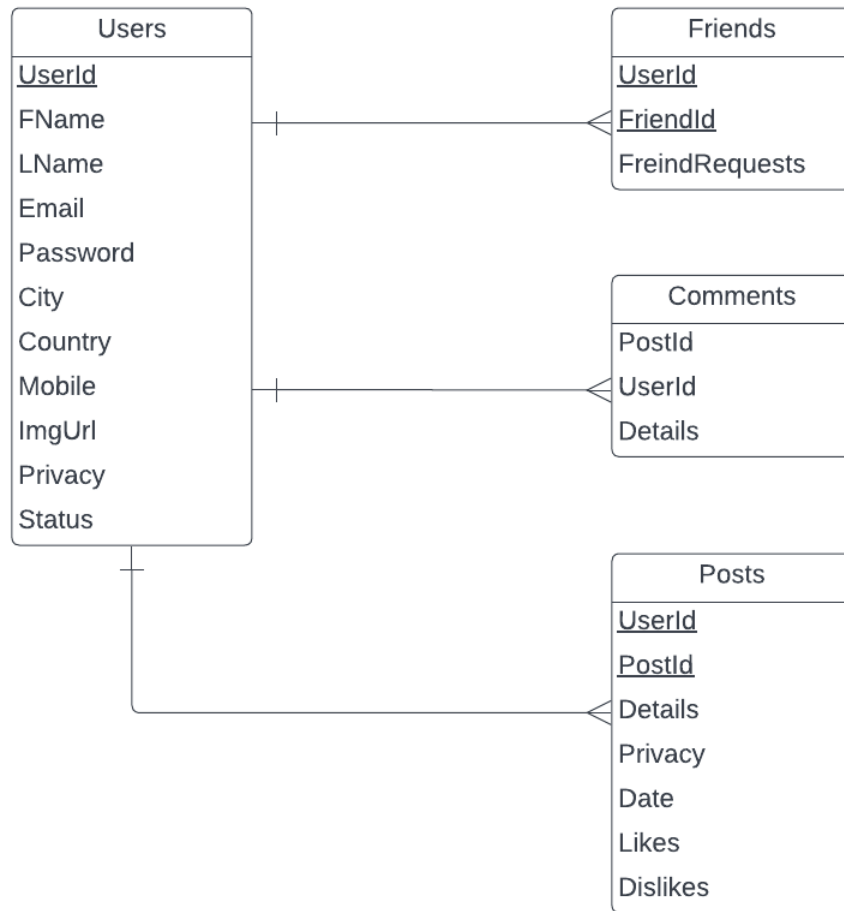
Sequence Diagram



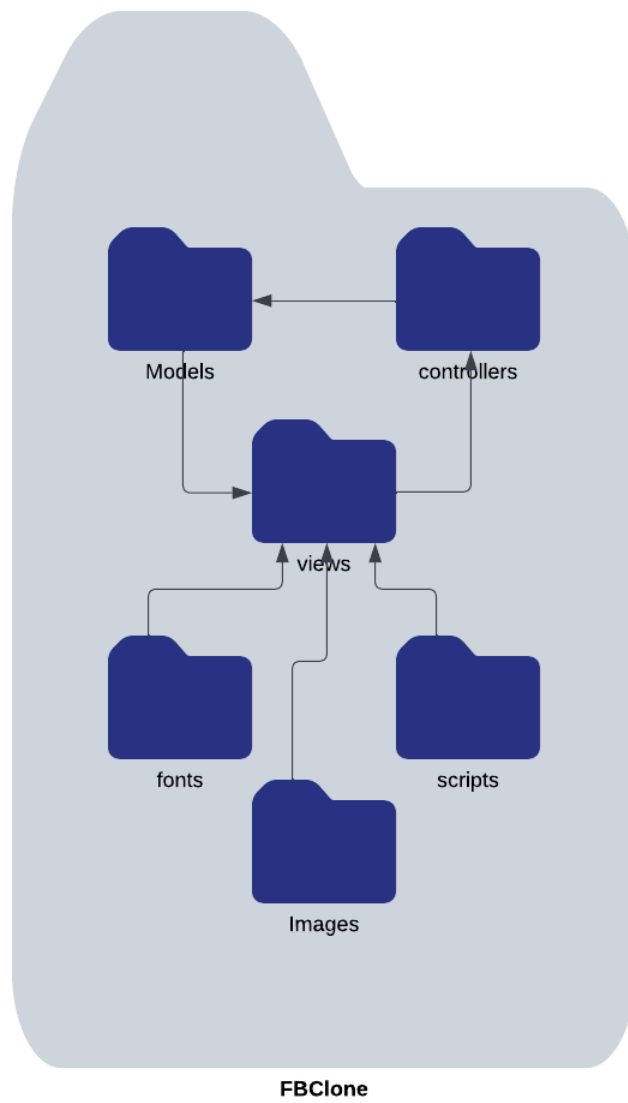
login+



ERD Diagram



Package Diagram



FBClone

Analysis

Project's process memory usage

135 mb for base server handling

3 mb per user

Deathnote

Account Controller

- Sign up
 - Adds a new account to the data base
- Login
 - Validates user information and ensures the user accessability he needs due to his credentials
- Home
 - Shows user home area including:
 - Profile data
 - Profile posts [private & public]
 - navigation [public navigation & specific navigation found only in user home]
 - Specific navigation that is found only in home :
 - Friend list
 - Friend Request list
 - Edit info
 - change post privacy
- Change Image
 - Changes the profile image
- Edit info
 - Changes the profile data with the new filled data
- **List [DEVELOPMENT PHASE ONLY]**
 - lists all the profiles in the system

Friends Controller

- Show Friends
 - Show all related profiles to the logged in user
- Show Friend Requests
 - Shows all relation request profiles to the logged in user
- Show Online Friends
 - Shows active related profiles in real time
- Send Request
 - Sends a relation request to the searched user
- Accept Friend Request
 - Accepts a relation request between users
- Reject Friend Request
 - Rejects a relation request between users
- Remove Friend
 - Removes a solid relation between users

Post Controller

- Post
 - Adds a new detailed post to the system
- Comment Section
 - Shows the comments of the desired post details
- Show Posts
 - Shows posts [**Public & Private**] of the logged in user
- Show User Home
 - Shows **Public Only** posts of related profiles to user
- Post Privacy
 - Changes the posting privacy of the user

- Like Post
 - Adds an upvote to the posted data
- Dislike Post
 - Adds a downvote to the posted data
- Post Details
 - Shows post details and comments
- Comment
 - Adds a new comment on the specified post

Search Controller

- Search Result
 - Fetches a user that his data **contains** the keyword
- User Profile
 - Shows the fetched user profile
- Show User Profile Posts
 - Shows the **public only** posts for the viewed user
- Fetch User
 - Fetches a user from the database



aspnet / **RoslynCodeDomProvider** Microsoft.CodeDom.Providers.DotNetCompilerPlatform

2.0.1



aspnet / **jquery-validation-unobtrusive** Microsoft.jQuery.Unobtrusive.Validation

3.2.11



aspnet / **AspNetWebStack** Microsoft.Web.Infrastructure

1.0.0.0



Modernizr / **Modernizr**

2.8.3



JamesNK / **Newtonsoft.Json**

12.0.2



WebGrease

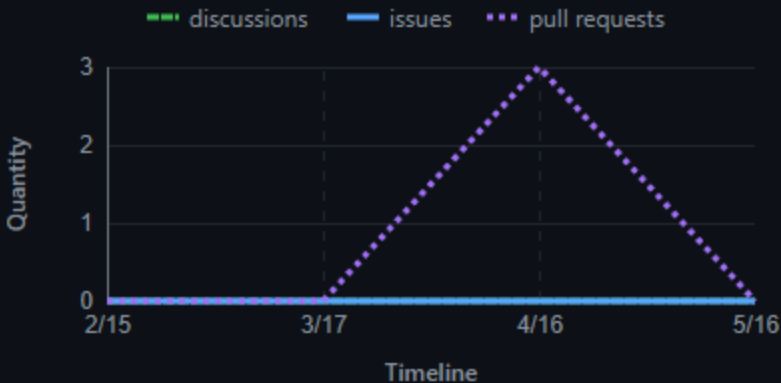
1.6.0

hamedserag



Contribution activity

Count of total contribution activity to Discussions, Issues, and PRs



Contributors 3



hamedserag Hamed Serag



ZeyadMashhour



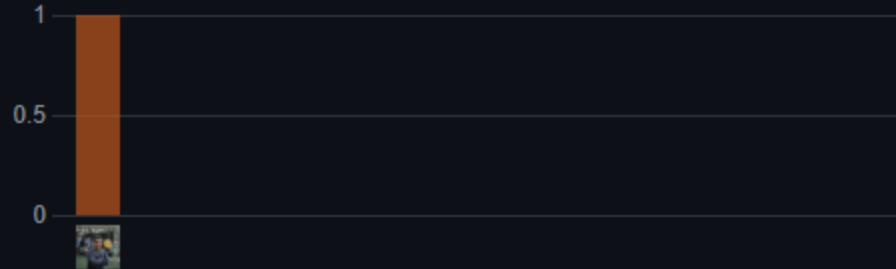
Bensa0

Languages



● JavaScript 96.3%	● HTML 1.9%
● C# 1.6%	● Other 0.2%

Excluding merges, **1 author** has pushed **1 commit** to master and **1 commit** to all branches. On master, **31 files** have changed and there have been **676 additions** and **441 deletions**.





Visitors





54 Views


6 Unique visitors


 **antlr / antlr3** Antlr 3.5.0.2


>  **twbs / bootstrap** 3.4.1


 **dotnet / ef6** EntityFramework 6.1.3


 **jquery / jquery** jQuery 3.4.1


>  **jquery-validation / jquery-validation** jQuery.Validation 1.17.0

>  **aspnet / Mvc** Microsoft.AspNet.Mvc 5.2.7

 **aspnet / Razor** Microsoft.AspNet.Razor 3.2.7

>  **aspnet / AspNetWebStack** Microsoft.AspNet.Web.Optimization 1.1.3

>  **aspnet / AspNetWebStack** Microsoft.AspNet.WebPages 3.2.7

 **aspnet / RoslynCodeDomProvider** Microsoft.CodeDom.Providers.DotNetCompilerPlatform 2.0.1

Git clones



4 Clones

4 Unique cloners