# Startup Assignment 4 Team Florida Strangler

#### **Team Members:**

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# **Entities in ER Diagram:**

- User: There is a unique user entity for each person using the application. Each User has attributes, Name, Password, ProfilePic, School, Email, Major, Description and FriendList. A User has a MailBox, a Forum, and a GroupList. User has a Friend relationship with itself, multiple Users can be friends with multiple Users.
- **Group:** A **User** can create or join multiple **Groups**, and a **Group** can only have one creator. A **Group** contains Name, Icon, Member, MemberCount, Location, LastActiveDate, Description.
- GroupList: A GroupList has zero or more Groups, a Group can be in multiple GroupList.
- **Request:** A **User** authors/writes a **Request**, it contains Author, Receiver, CreateDate, Content, and Read.
- MailBox: A MailBox can have multiple or no Requests, a Request can only be in one MailBox.
- **Post**: Authors by a **User**, one Post can be authored by only one **User**, A **User** can author multiple **Posts**. A **Post** contains Author, PostDate, View, and Title, ViewCount, ReplyCount, LastReplyAuthor, LastReplyDate. It is a particular type of **PostItem**.
- Forum: A Forum has multiple Posts, and a Post can be in multiple Forum.
- Comment: A Comment is authored by an User, which contains the post date and the content of the comment.
- PostItem: A PostItem has one CommentThread.
- CommentThread: A CommentThread contains multiple Comments.

## **Dictionary for Attributes:**

#### User:

Name: The identification name used by User, unique String data type

**Password**: A words or phrases must be used to gain admission, String data type

**ProfilePic**: A picture used in Profile, file type

**Unread**: The number of unread message/request in MailBox, Integer data type

**Email**: The email address used by User, String data type

Major: The major identified by User, String data type

**Description**: A written presentation of the User, String data type **FriendList**: A List of friends identified by User, List data type

Group:

Name: The name of the group, String data type

**Icon**: A picture used to represent the Group, file data type

**Member**: The users within the group, List data type

**MemberCount**: The number of member in the group, Int data type

**Location**: The location of the group, String data type

**LastActiveDate**: The last active date of the group, Date data type

**Description**: The description of the group, String data type

Post:

Author: The User who post the Post, String data type

**PostDate**: The time and date of which **Post** is posted, Time data type

**Title:** The title of the **Post**, String data type

**ViewCount**: The number of time the **Post** is viewed, Int data type

**ReplyCount:** The number of time a **User** has replied to the **Post**, Int data type

LastReplyAuthor: The User who last replied the Post with a Comment, String data

type

LastReplyDate: The time of the last replied Comment, Time data type

**Comment:** 

**Author:** The **User** who posted the **Comment**, String data type

**PostDate**: The time and date of when the **Comment** is posted, Time data type

**Content**: The message of the **Comment**, String data type

**Request:** 

**Author:** The name attribute of the **User** who creates the **Request**, String data type

**Receiver:** The name attribute of the User who is receiving the **Request**, String data type

**CreateDate:** The time and date the **Request** is sent, Time data type

**Status:** Receiver's responses to **Request**, Accepted or Not, Boolean data type

**Title:** The title of the **Request**, String data type

**Content:** The content and description of the **Request**, String data type **Read**: Indicate the status of read or unread of **Request**, Boolean data type

## Widgets/Pages of Website:

• Home Page:

-Entity

In this page, there is a recommend post section and it uses **Post** entity.

## -Data Usage

The recommend post section displays popular post and it uses **Post**'s ViewCount attribute to determine whether a post should be recommended.

## • Forum Page:

#### -Entities

This page uses **Post** and **Comment** to populate the forum with different **Post** and **Comment** that goes with each **Post** 

## -Data Usage:

The forum filled with **Post**, which contains the title of the post, the reply/view count of the thread, the author of the post(an **User**), the date is was posted, last replied author(an **User**) and the date of the last replied author. Inside the **Post** are the **Comment**, which is written by an **User** with contents and date it was posted.

# • Friends Page:

#### -Entities

This page uses **User** and **Group List** to populate the required data being displayed. In the Add friends tab, **Request** and **Mailbox** are used.

# -Data Usage

Each friend of the current user gets their profile box populated with their associated **User** data structure. This accesses the profile picture, full name, and school from the **User** of each friend. Common groups from **Group List** are also displayed.

In the add friends tab, **Request**s are created and sent to a given user's **Mailbox**.

## • Invitation Page:

#### -Entities

This page uses **Request** and **MailBox** entities. On this page, each **User** has only one **MailBox**, and a **MailBox** contains multiple or none **Requests**. **User** can create/author a new **Request**.

# -Data Usage

A User can only view Requests that are sent by or sent to the User in the MailBox, which is defined by Request's Author, and Receiver attributes. The webpage displays Requests as list items, using Request's Author, CreateDate, Title, and Status attributes when rendering each list item. Each list item will be color coded by Request's Status attribute. The webpage will use all Request's attributes when rendering the descriptive view.

## • Account Page:

#### -Entities

The account page uses the **User** entity, which displays the user's name, password, e-mail, grade, profile picture, major, school and description.

## -Data Usage

The page is filled with all the attributes only for the **User** being displayed, the page also includes a form on the bottom allowing for the user to update any of the attributes listed on the page.

## • Search Result Page:

## -Entities

The search result page uses the **GroupList** and **Group** entities, which displays the list of group match to the searching criteria and the content for each Group.

## -Data Usage

The page is filled with the List of matching group with its **Name** and **Content** attributes.

# • Group Page:

## -Entities:

The group page uses the **Group** entity.

-Data Usage:

The group page uses all **Group**'s attributes to display the full detail of the group.

# • Navigation Bar:

## -Entities:

The navigation bar uses **User** entity to display personal information.

## -Data Usage:

The navigation bar uses **User**'s ProfilePic and Unread attribute to render the view.