CS-GY-6083: Principles of Database Systems
Project Report (Part 2)

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Introduction:

Often to get away from it all, outdoor enthusiasts plan to escape from their current routine and do something fun. In today's world however, technology surely has its place in the backpacker's world. With the idea of the outdoor enthusiasts interested in sharing their outdoor activities and experiences through a social media platform a database social network site is designed.

Entities:

The database of this social network site website will have the following entities:

- **Users** – the primary account holder on the social network site who signs up with email id and edit details like Birth date, residence city location; user can have a Profile picture, cover photo, last login time is maintained for the User, bio, number of followers, gender, etc.
- **Following_Friends** – User can follow another user to add him/her to his friend circle; the other user can also follow back the first user and thus they are following friends.
- **Favorite_Friend** – the circle of following friends the user wishes to add favorite; added favorite friends can be reached faster.
- **Post** – user experiences and activity updates in the form of text or pictures with location tags with a title and the activity name; visible on the users feed; posts ordered by time of post and can be shared; has additional properties like number of likes and privacy settings.
- **Saved_Post** – User can save a Post of users. Saved posts have properties like post id, user id of whose post it is and the time when the post is saved.
- **Messages –** Users can send messages to anyone he/she follows. Messages can be recognized by the to-user, from-user, time and the message body. It also has the property of whether the message is seen or not.
- **Comments** – remarks/ observations on the post by the friends or other users along with the name of the friend and date when the comment was filled; a user can also edit his comments on the posts and accordingly the time of the comment or edited comment is saved.
- **Likes** – friends or other users can click like for the user's posts depending upon the user's privacy constraints,
- **Notifications** – User receives update on recent activities. Notifications have properties like id of from-user and for-user, the type of notification, whether the notification is seen or not and the time of the notification.
- **Feedback** – User can contact the Support Team for Feedback/Troubleshoot. The admin receives the notification of the Feedback messages. It has properties like subject of the feedback, status, report time, type, etc.
- **DiaryNotes** – The users can maintain personal Diary notes in the form of memos. It has properties like, title, note content and note time.

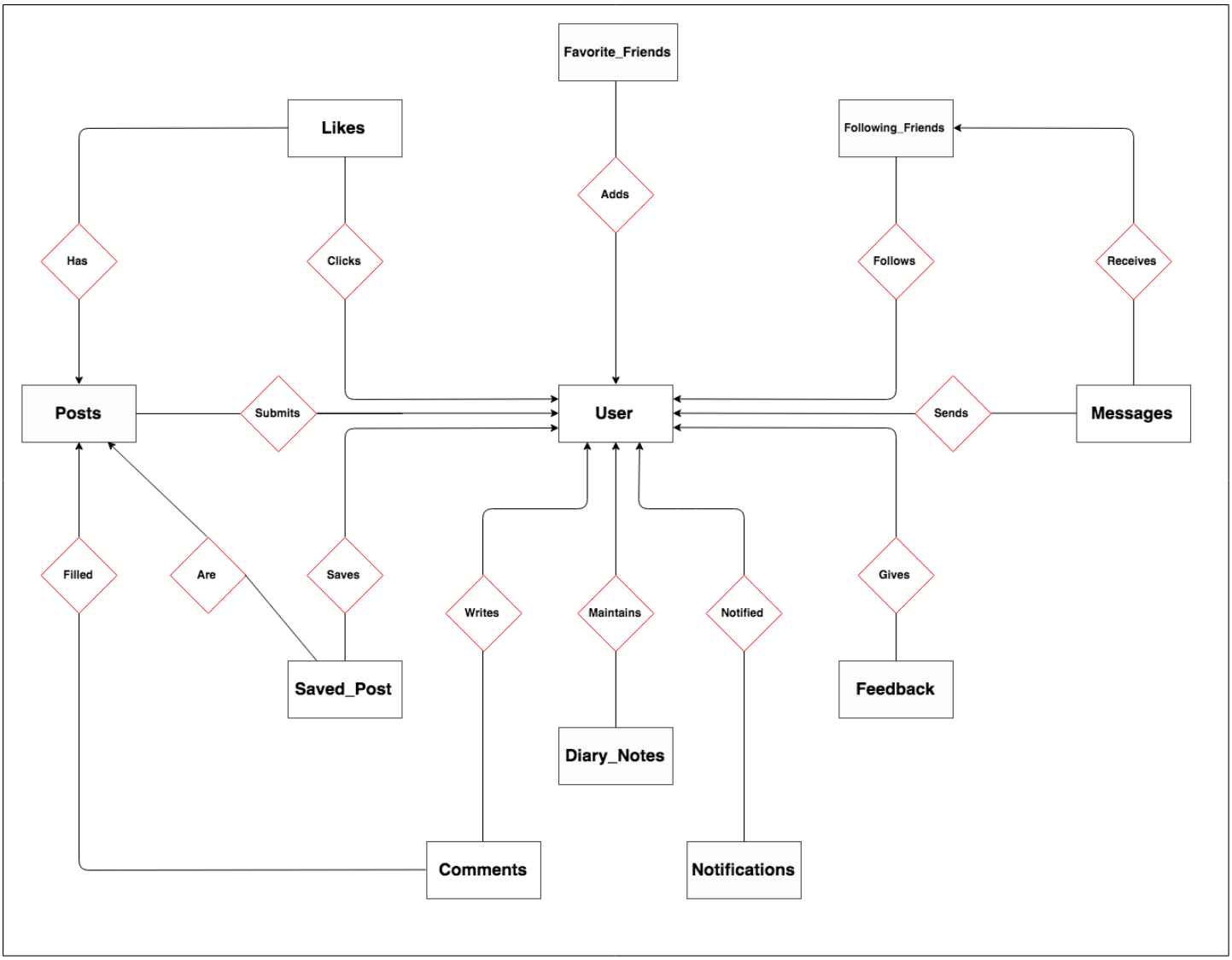
Relationships:

The connection and dependencies between the above entities is defined using relationships. The following are the relationships:

- **Submits** - Exists between User and Posts.
  User adds Posts of his/her activities with activity name, location tags, text or pictures. One User can have multiple Posts.
- **Writes** - Exists between User and Comments.
  A user can comment on his/her Friends Posts. A single User can comment on many Posts.
- **Filled** - Exists between Posts and Comments.
  Posts are filled with Comments from the user's friend circle. A Post can have several comments.
- **Has** - Exists between Posts and Likes.
  A user can like his/her friends Posts. One Post will have multiple Likes.
- **Clicks** - Exists between User and Likes.
  A User can click Like for his/her friend circle's post. One user can click Like once for one Post. A user can have multiple likes for various Posts.
- **Follows –** Exists between Users and Following_Friends
  A user can follow other users. The users feed will be filled by the followed friend's posts. A user can message such followed friends.
- **Adds –** Exists between Users and Favorite_Friend
  A user can add other users as Favorite friends. A favorite friends feed will be visible first in the feed of the user.
- **Sends –** Exists between Users and Messages
  A user can send messages to other followed friends.
- **Receives -** Exists between Following_Friends and Messages
  A user receives messages from other followers.
- **Saves –** Exists between Users and Saved_Post
  A user can save post of followers as Saved Posts. These saved posts can be viewed by the user anytime when he wishes to.
- **Are –** Exists between Saved_Post
  Posts which are saved by the users of following are Saved Posts.
- **Maintains –** Exists between Users and DiaryNotes
  Memos can be maintained by the user for personal references, reminders or memories. The notes can have title, content and time of saved memo.
- **Notifies –** Exists between Users and Notifications
  User gets notified if there is any kind of activity on his feed. Different types of notifications can be messages, followed by another user, liked post, commented on a post or shared a post.
- **Gives -** Exists between Users and Feedback
  Users can also give feedback to in the Support section. These feedback messages will be received by the admin profile in the database. The admin can reply to the feedback of the users.

ER Diagram – Outdoor Enthusiast Social Network:

To sum up to above scenario, following is the ER diagram for the social network site. The ER diagram was drawn on draw.io site. The ER diagram indicates all the above entities and the relationship they hold with each other. Using the ER diagram, a Relational Schema is defined further.
The ER diagram below has only entities explained with relationships. Attributes are not shown so as to get a clear view of the website since they are large in number.



Relational Schema:

The following is the relational schema for the described scenario. The attributes that are underlined are the primary keys of the relation:

Users (main_id, id, Fullname, Username, Email, Password, followers, Userphoto, user_cover_photo, school, work, work0, country, birthday, verify, website, bio, admin, gender, login_attempts, language, aSetup, online)
Following_Friends (id, uf_one, uf_two)
Favorite_Friend (id, u_id, p_id)
Post (post_id, author_id, post_img, post_time, post_content, p_title, p_location, p_likes, p_privacy, shared)
Saved_Post (main_id, id, post_id, user_saved_id, saved_time)
Messages (id, m_id, message, m_from, m_to, m_time, m_seen)
Comments (c_id, c_author_id, c_post_id, c_content, c_edited, c_time_edited, c_time)
Likes (id_liker, post_id)
Notifications (id, n_id, from_id, for_id, notifyType_id, notifyType, seen, time)
Feedback (id, r_id, from_id, for_id, r_type, subject, report, r_time, r_replay, r_replay_time, status)
Diary_notes (main_id, id, author_id, note_title, note_content, note_time)

Aspects considered while designing this schema:

- There are many one to may relationships in the database.
- Normalization of tables is not that perfect. To make it perfect we can add more tables.
- Creating more tables say with only a single redundant column would have resulted in memory wastage.
- Queries for such tables will need multiple joins and will have longer running time.
- To avoid this time-memory tradeoff there is a little redundancy in the database.
- Foreign keys are maintained for database integrity.
- Few details of the database might differ with time.

DDL Queries:

- **Creation of Database**

Server: localhost:8889 » Database: Production1_Discover

Structure | SQL | Search | Query | Export | Import | Operations | Privileges | Routines | Events | Triggers | Designer

Filters
Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
Comments	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
DiaryNotes	Browse Structure Search Insert Empty Drop	3	InnoDB	latin1_swedish_ci	16 KiB	-
Favorite_Friend	Browse Structure Search Insert Empty Drop	15	InnoDB	latin1_swedish_ci	16 KiB	-
Feedback	Browse Structure Search Insert Empty Drop	4	InnoDB	latin1_swedish_ci	16 KiB	-
Following_Friends	Browse Structure Search Insert Empty Drop	54	InnoDB	latin1_swedish_ci	16 KiB	-
Likes	Browse Structure Search Insert Empty Drop	16	InnoDB	latin1_swedish_ci	16 KiB	-
Messages	Browse Structure Search Insert Empty Drop	12	InnoDB	latin1_swedish_ci	16 KiB	-
Notifications	Browse Structure Search Insert Empty Drop	87	InnoDB	latin1_swedish_ci	16 KiB	-
Post	Browse Structure Search Insert Empty Drop	21	InnoDB	latin1_swedish_ci	16 KiB	-
Saved_Post	Browse Structure Search Insert Empty Drop	2	InnoDB	latin1_swedish_ci	16 KiB	-
Typing_Message	Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16 KiB	-
Users	Browse Structure Search Insert Empty Drop	14	InnoDB	latin1_swedish_ci	16 KiB	-
12 tables	Sum	233	InnoDB	utf8_general_ci	192 KiB	0 B

Check all With selected:

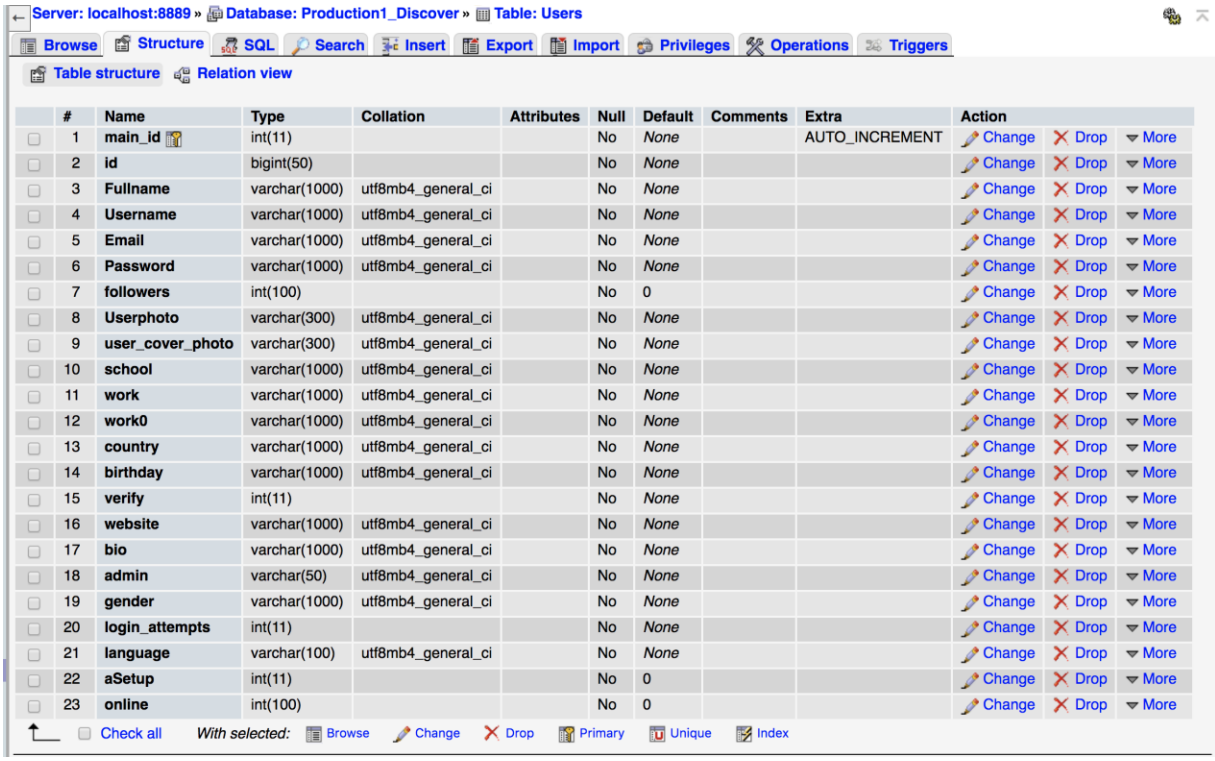
```
-- phpMyAdmin SQL Dump
-- http://www.phpmyadmin.net
-- Host: localhost

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;

--
-- Database: `Production1_Discover`
--

-- --------------------------------------------------------

--
-- Indexes for dumped tables
--

--
-- Indexes for table `Comments`
--
ALTER TABLE `Comments`
  ADD PRIMARY KEY (`c_id`);

--
-- Indexes for table `Following_Friends`
--
ALTER TABLE `Following_Friends`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `Likes`
```

```
--
ALTER TABLE `Likes`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `Messages`
--
ALTER TABLE `Messages`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `DiaryNotes`
--
ALTER TABLE `DiaryNotes`
  ADD PRIMARY KEY (`main_id`);

--
-- Indexes for table `Notifications`
--
ALTER TABLE `Notifications`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `Favorite_Friend`
--
ALTER TABLE `Favorite_Friend`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `Saved_Post`
--
ALTER TABLE `Saved_Post`
  ADD PRIMARY KEY (`main_id`);

--
-- Indexes for table `Users`
--
ALTER TABLE `Users`
  ADD PRIMARY KEY (`main_id`);

--
-- Indexes for table `Feedback`
--
ALTER TABLE `Feedback`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `Typing_Message`
--
ALTER TABLE `Typing_Message`
  ADD PRIMARY KEY (`id`);

--
-- Indexes for table `Post`
--
ALTER TABLE `Post`
  ADD PRIMARY KEY (`post_id`);

--
-- AUTO_INCREMENT for dumped tables
--
--
```

```
-- AUTO_INCREMENT for table `Comments`
--
ALTER TABLE `Comments`
  MODIFY `c_id` bigint(50) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `Following_Friends`
--
ALTER TABLE `Following_Friends`
  MODIFY `id` bigint(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
--
-- AUTO_INCREMENT for table `Likes`
--
ALTER TABLE `Likes`
  MODIFY `id` bigint(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `Messages`
--
ALTER TABLE `Messages`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;
--
-- AUTO_INCREMENT for table `DiaryNotes`
--
ALTER TABLE `DiaryNotes`
  MODIFY `main_id` int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `Notifications`
--
ALTER TABLE `Notifications`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
--
-- AUTO_INCREMENT for table `Favorite_Friend`
--
ALTER TABLE `Favorite_Friend`
  MODIFY `id` bigint(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
--
-- AUTO_INCREMENT for table `Saved_Post`
--
ALTER TABLE `Saved_Post`
  MODIFY `main_id` int(11) NOT NULL AUTO_INCREMENT;
--
-- AUTO_INCREMENT for table `Users`
--
ALTER TABLE `Users`
  MODIFY `main_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=12;
--
-- AUTO_INCREMENT for table `Feedback`
--
ALTER TABLE `Feedback`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;
--
```

- **Creation of Users Table**

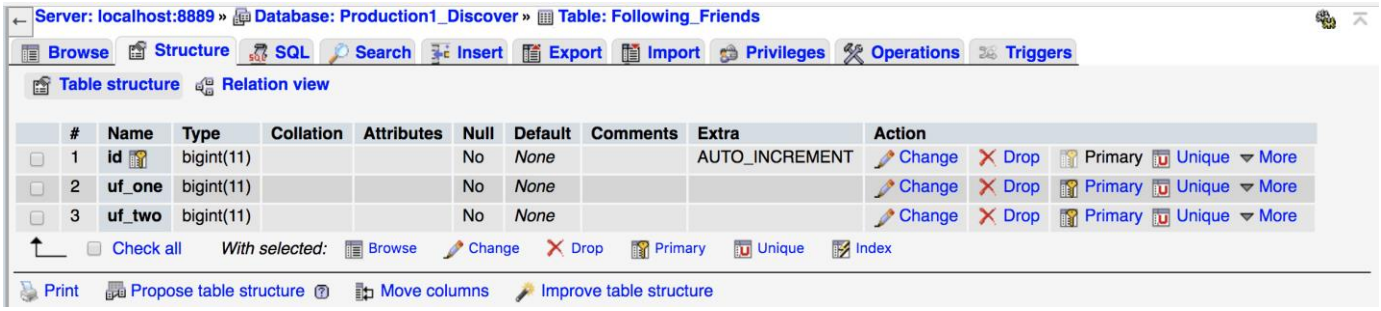
```
--
-- Table structure for table `Users`
--

CREATE TABLE `Users` (
  `main_id` int(11) NOT NULL,
  `id` bigint(50) NOT NULL,
  `Fullname` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `Username` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `Email` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `Password` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `followers` int(100) NOT NULL DEFAULT '0',
  `Userphoto` varchar(300) CHARACTER SET utf8mb4 NOT NULL,
  `user_cover_photo` varchar(300) CHARACTER SET utf8mb4 NOT NULL,
  `school` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `work` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `work0` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `country` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `birthday` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `verify` int(11) NOT NULL,
  `website` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `bio` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `admin` varchar(50) CHARACTER SET utf8mb4 NOT NULL,
  `gender` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `login_attempts` int(11) NOT NULL,
  `language` varchar(100) CHARACTER SET utf8mb4 NOT NULL,
  `aSetup` int(11) NOT NULL DEFAULT '0',
  `online` int(100) NOT NULL DEFAULT '0'
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```



#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	main_id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	id	bigint(50)			No	None			Change Drop More
3	Fullname	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
4	Username	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
5	Email	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
6	Password	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
7	followers	int(100)			No	0			Change Drop More
8	Userphoto	varchar(300)	utf8mb4_general_ci		No	None			Change Drop More
9	user_cover_photo	varchar(300)	utf8mb4_general_ci		No	None			Change Drop More
10	school	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
11	work	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
12	work0	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
13	country	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
14	birthday	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
15	verify	int(11)			No	None			Change Drop More
16	website	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
17	bio	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
18	admin	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
19	gender	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop More
20	login_attempts	int(11)			No	None			Change Drop More
21	language	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
22	aSetup	int(11)			No	0			Change Drop More
23	online	int(100)			No	0			Change Drop More

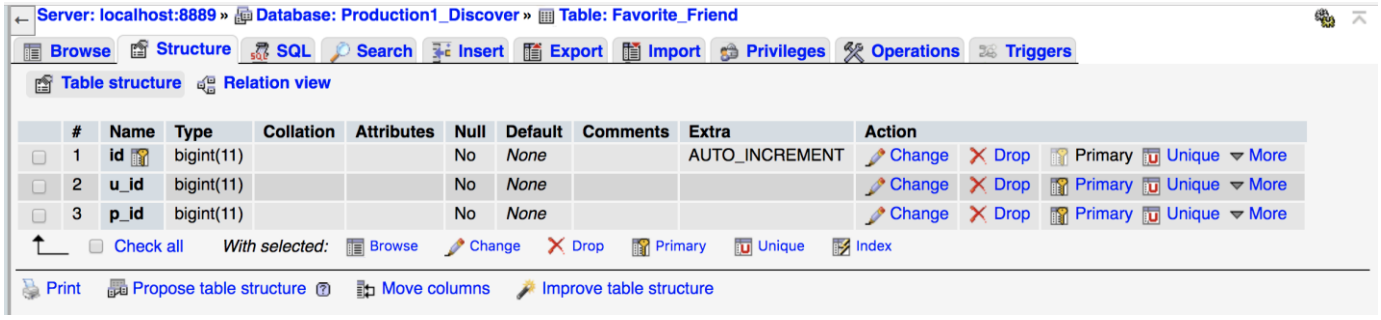
- ## Creation of Following_Friends Table

```
--
-- Table structure for table `Following_Friends`
--

CREATE TABLE `Following_Friends` (
  `id` bigint(11) NOT NULL,
  `uf_one` bigint(11) NOT NULL,
  `uf_two` bigint(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```



- ## Creation of Favorite_Friends Table

```
--
-- Table structure for table `Favorite_Friend`
--

CREATE TABLE `Favorite_Friend` (
  `id` bigint(11) NOT NULL,
  `u_id` bigint(11) NOT NULL,
  `p_id` bigint(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```



- ## Creation of Post Table

```
-- Table structure for table `Post`
--

CREATE TABLE `Post` (
  `post_id` bigint(50) NOT NULL,
  `author_id` bigint(11) NOT NULL,
  `post_img` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `post_time` int(11) NOT NULL,
  `post_content` mediumtext CHARACTER SET utf8mb4 NOT NULL,
  `p_title` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `p_location` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
```

```
  `p_likes` int(100) NOT NULL DEFAULT '0',
  `p_privacy` int(11) NOT NULL DEFAULT '0',
  `shared` varchar(1000) CHARACTER SET utf8mb4 NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

--
-- -------------------------------------------------------
```

Server: localhost:8889 » Database: Production1_Discover » Table: Post

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	post_id	bigint(50)			No	None			Change Drop Primary More
2	author_id	bigint(11)			No	None			Change Drop Primary More
3	post_img	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop Primary More
4	post_time	int(11)			No	None			Change Drop Primary More
5	post_content	mediumtext	utf8mb4_general_ci		No	None			Change Drop Primary More
6	p_title	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop Primary More
7	p_location	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop Primary More
8	p_likes	int(100)			No	0			Change Drop Primary More
9	p_privacy	int(11)			No	0			Change Drop Primary More
10	shared	varchar(1000)	utf8mb4_general_ci		No	None			Change Drop Primary More

Check all With selected: Browse Change Drop Primary Unique Index

- ## Creation of Saved_Post Table

```
--
-- Table structure for table `Saved_Post`
--

CREATE TABLE `Saved_Post` (
  `main_id` int(11) NOT NULL,
  `id` bigint(20) NOT NULL,
  `post_id` bigint(11) NOT NULL,
  `user_saved_id` bigint(11) NOT NULL,
  `saved_time` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- -------------------------------------------------------
```

Server: localhost:8889 » Database: Production1_Discover » Table: Saved_Post

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Table structure | Relation view

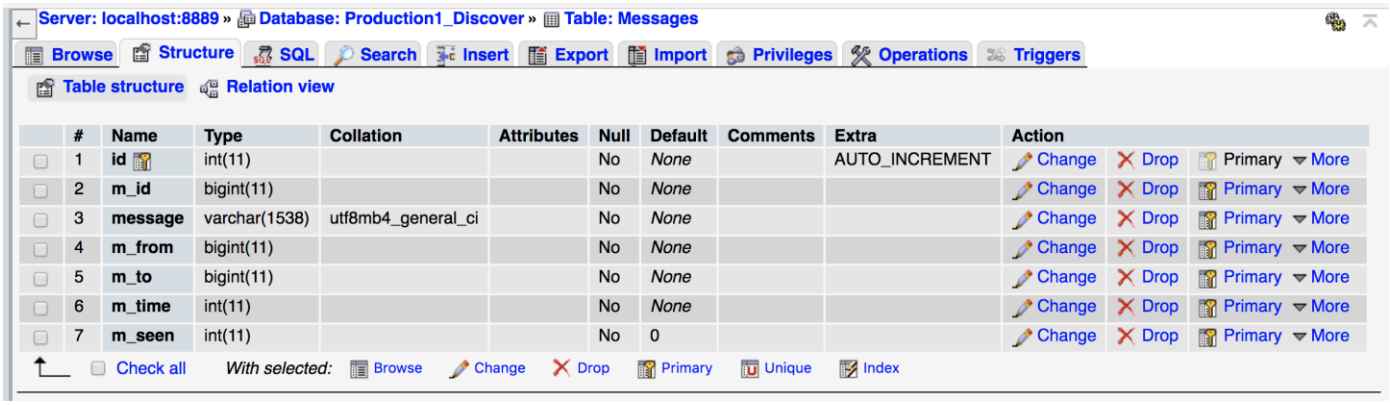
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	main_id	int(11)			No	None		AUTO_INCREMENT	Change Drop Primary More
2	id	bigint(20)			No	None			Change Drop Primary More
3	post_id	bigint(11)			No	None			Change Drop Primary More
4	user_saved_id	bigint(11)			No	None			Change Drop Primary More
5	saved_time	int(11)			No	None			Change Drop Primary More

Check all With selected: Browse Change Drop Primary Unique Index

- ## Creation of Messages Table

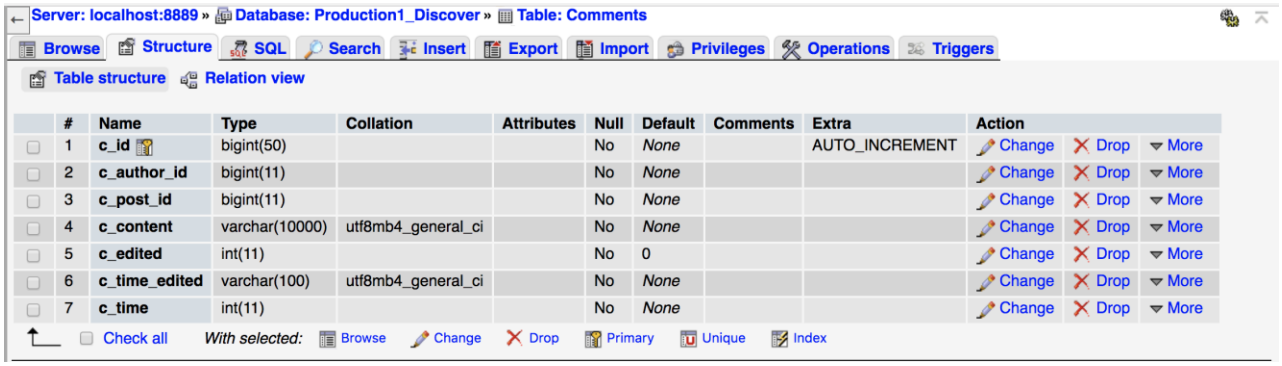
```
--
-- Table structure for table `Messages`
--

CREATE TABLE `Messages` (
  `id` int(11) NOT NULL,
  `m_id` bigint(11) NOT NULL,
  `message` varchar(1538) CHARACTER SET utf8mb4 NOT NULL,
  `m_from` bigint(11) NOT NULL,
  `m_to` bigint(11) NOT NULL,
```

```
  `m_time` int(11) NOT NULL,
  `m_seen` int(11) NOT NULL DEFAULT '0'
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```



- ## Creation of Comments Table

```
-- Table structure for table `Comments`
--

CREATE TABLE `Comments` (
  `c_id` bigint(50) NOT NULL,
  `c_author_id` bigint(11) NOT NULL,
  `c_post_id` bigint(11) NOT NULL,
  `c_content` varchar(10000) CHARACTER SET utf8mb4 NOT NULL,
  `c_edited` int(11) NOT NULL DEFAULT '0',
  `c_time_edited` varchar(100) CHARACTER SET utf8mb4 NOT NULL,
  `c_time` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```



- ## Creation of Likes Table

```
--
-- Table structure for table `Likes`
--

CREATE TABLE `Likes` (
  `id` bigint(11) NOT NULL,
  `liker` bigint(11) NOT NULL,
  `post_id` bigint(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```

Server: localhost:8889 » Database: Production1_Discover » Table: Likes

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	bigint(11)			No	*None*		AUTO_INCREMENT	Change Drop Primary Unique More
2	liker	bigint(11)			No	*None*			Change Drop Primary Unique More
3	post_id	bigint(11)			No	*None*			Change Drop Primary Unique More

Check all *With selected:* Browse Change Drop Primary Unique Index

Print Propose table structure Move columns Improve table structure

- **Creation of Notification Table**

```
--
-- Table structure for table `Notifications`
--

CREATE TABLE `Notifications` (
  `id` int(11) NOT NULL,
  `n_id` bigint(11) NOT NULL,
  `from_id` bigint(11) NOT NULL,
  `for_id` bigint(11) NOT NULL,
  `notifyType_id` bigint(11) NOT NULL,
  `notifyType` varchar(100) NOT NULL,
  `seen` int(11) NOT NULL DEFAULT '0',
  `time` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```

Server: localhost:8889 » Database: Production1_Discover » Table: Notifications

Browse | Structure | SQL | Search | Insert | Export | Import | Privileges | Operations | Triggers

Table structure | Relation view

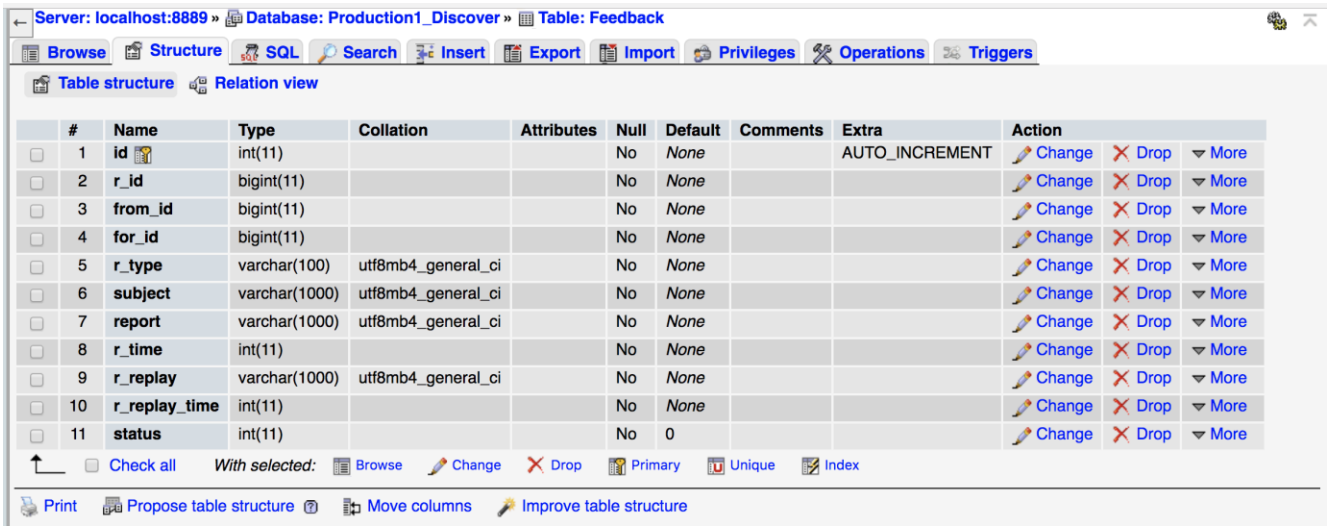
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	*None*		AUTO_INCREMENT	Change Drop More
2	n_id	bigint(11)			No	*None*			Change Drop More
3	from_id	bigint(11)			No	*None*			Change Drop More
4	for_id	bigint(11)			No	*None*			Change Drop More
5	notifyType_id	bigint(11)			No	*None*			Change Drop More
6	notifyType	varchar(100)	latin1_swedish_ci		No	*None*			Change Drop More
7	seen	int(11)			No	0			Change Drop More
8	time	int(11)			No	*None*			Change Drop More

Check all *With selected:* Browse Change Drop Primary Unique Index

- **Creation of Feedback Table**

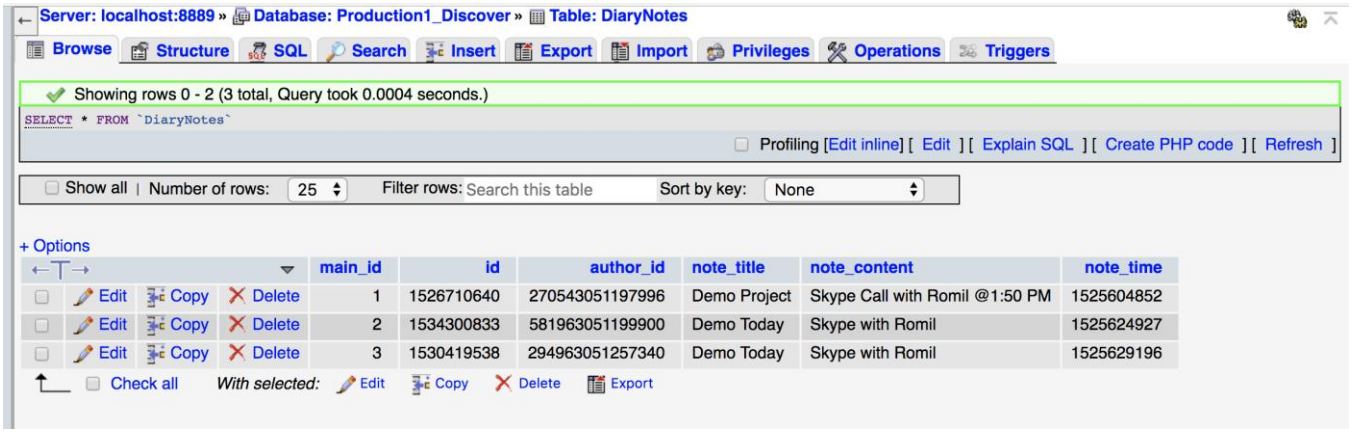
```
--
-- Table structure for table `Feedback`
--

CREATE TABLE `Feedback` (
  `id` int(11) NOT NULL,
  `r_id` bigint(11) NOT NULL,
  `from_id` bigint(11) NOT NULL,
  `for_id` bigint(11) NOT NULL,
  `r_type` varchar(100) CHARACTER SET utf8mb4 NOT NULL,
  `subject` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `report` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `r_time` int(11) NOT NULL,
  `r_replay` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
```

```
  `r_replay_time` int(11) NOT NULL,
  `status` int(11) NOT NULL DEFAULT '0'
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```



- **Creation of DiaryNotes Table**

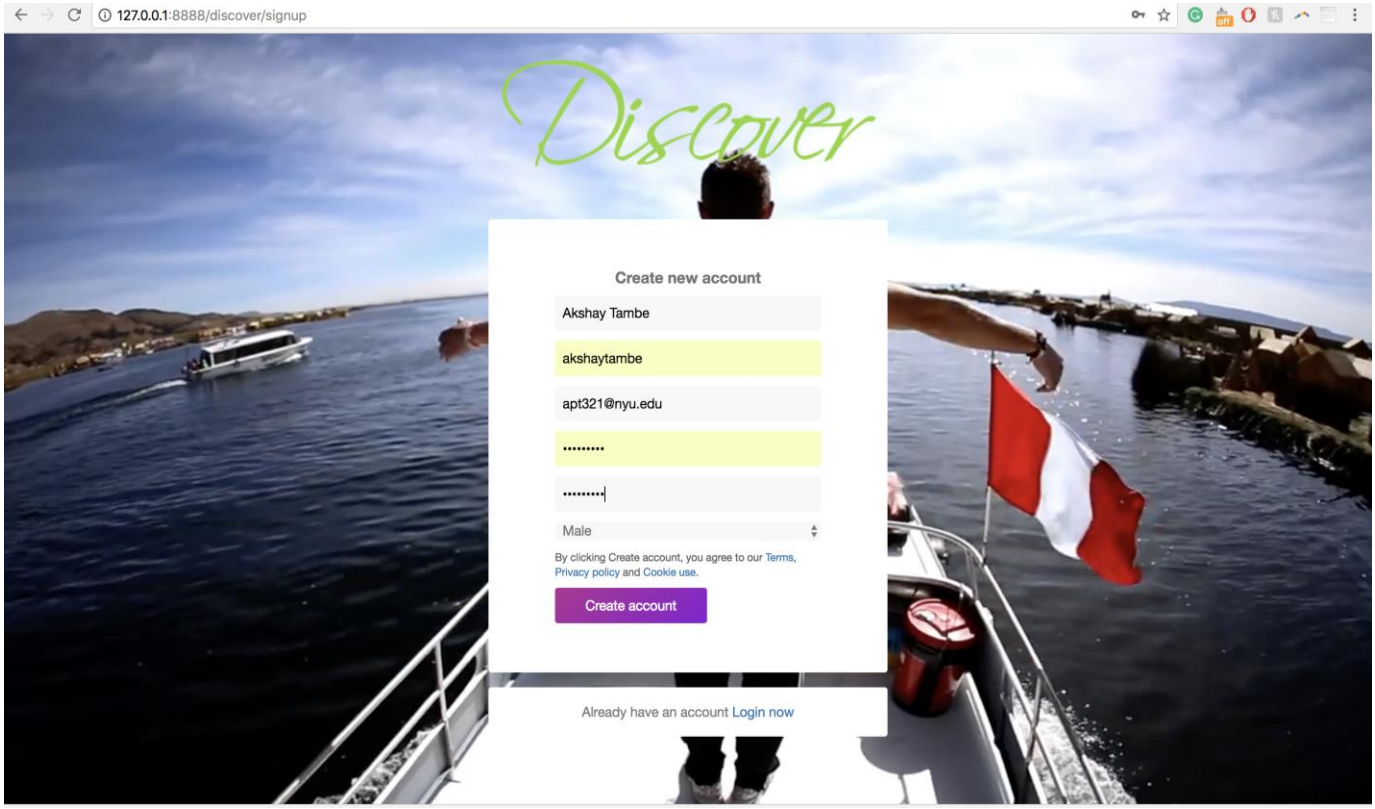
```
--
-- Table structure for table `DiaryNotes`
--

CREATE TABLE `DiaryNotes` (
  `main_id` int(11) NOT NULL,
  `id` bigint(20) NOT NULL,
  `author_id` bigint(11) NOT NULL,
  `note_title` varchar(1000) CHARACTER SET utf8mb4 NOT NULL,
  `note_content` varchar(10000) CHARACTER SET utf8mb4 NOT NULL,
  `note_time` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

-- --------------------------------------------------------
```

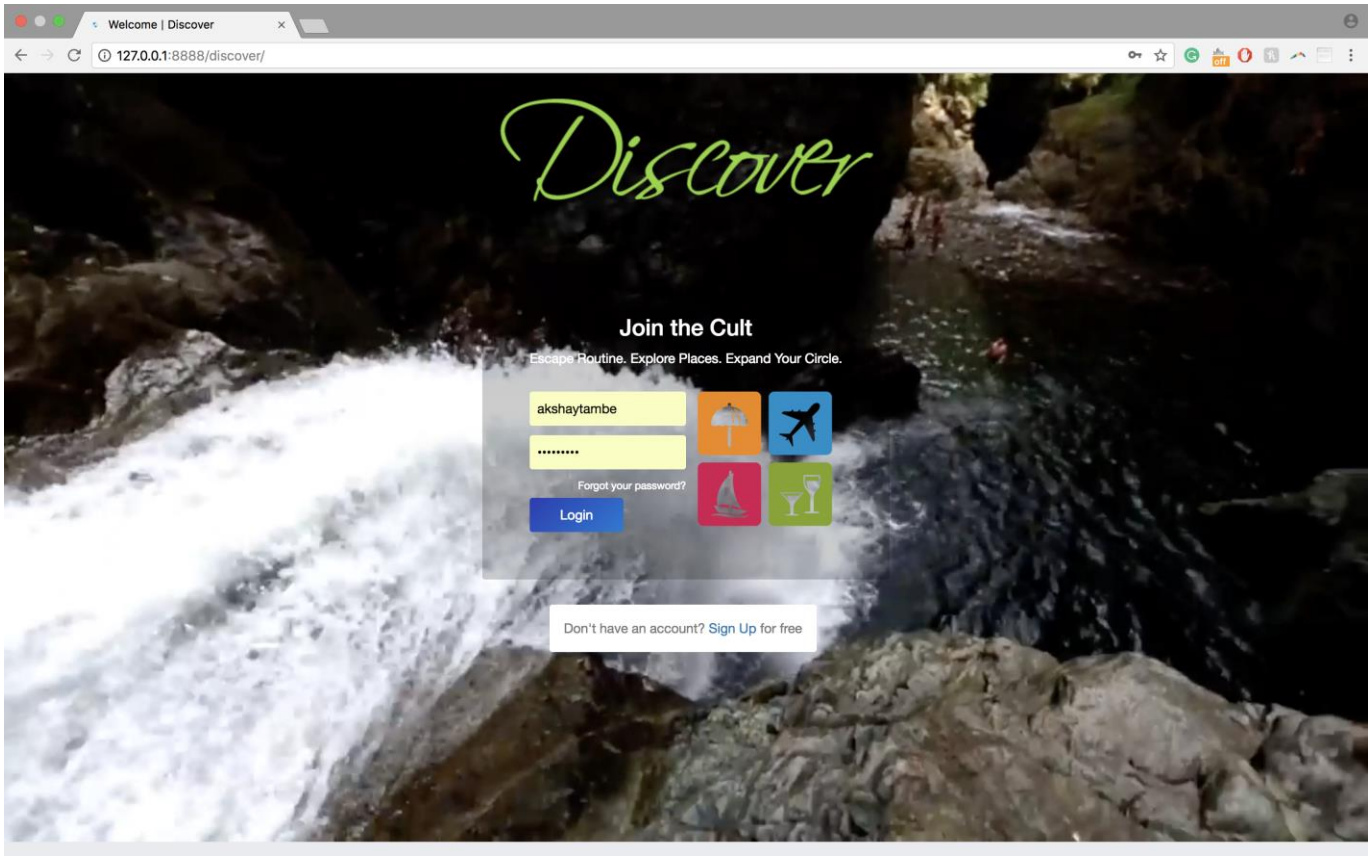


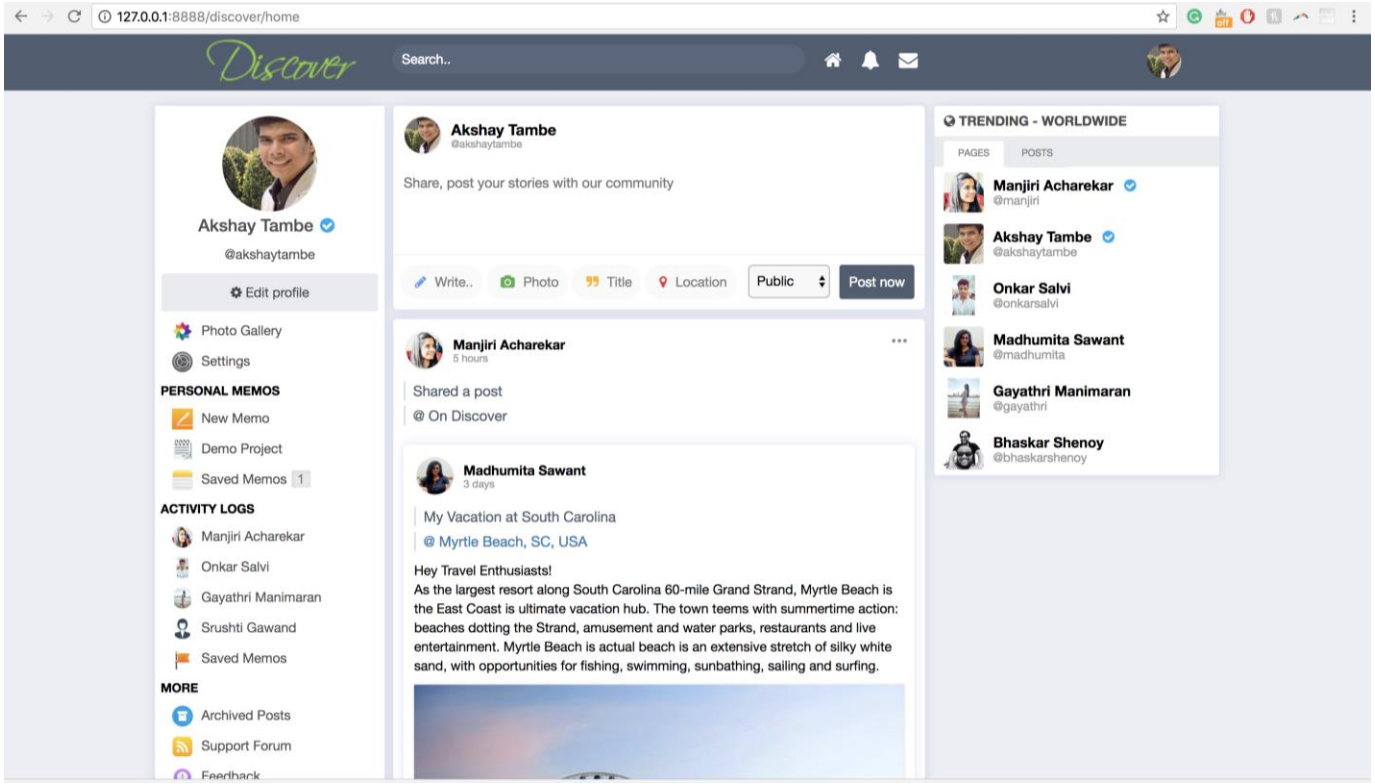
Features:

Signup and Login Page

- For Signup, Registration is done using basic information.
- Input checks are considered to check validity of email id, password (symbols + letters + numbers up to 8 chars)
- Input check to validate whether new username already exists.
- Login is done using username chosen at registration.
- Security Constraints are also maintained. Only 3 attempts can be allowed login if password is wrong. If failed, Admin must reset the user's password.
- User sessions are maintained after sign in.

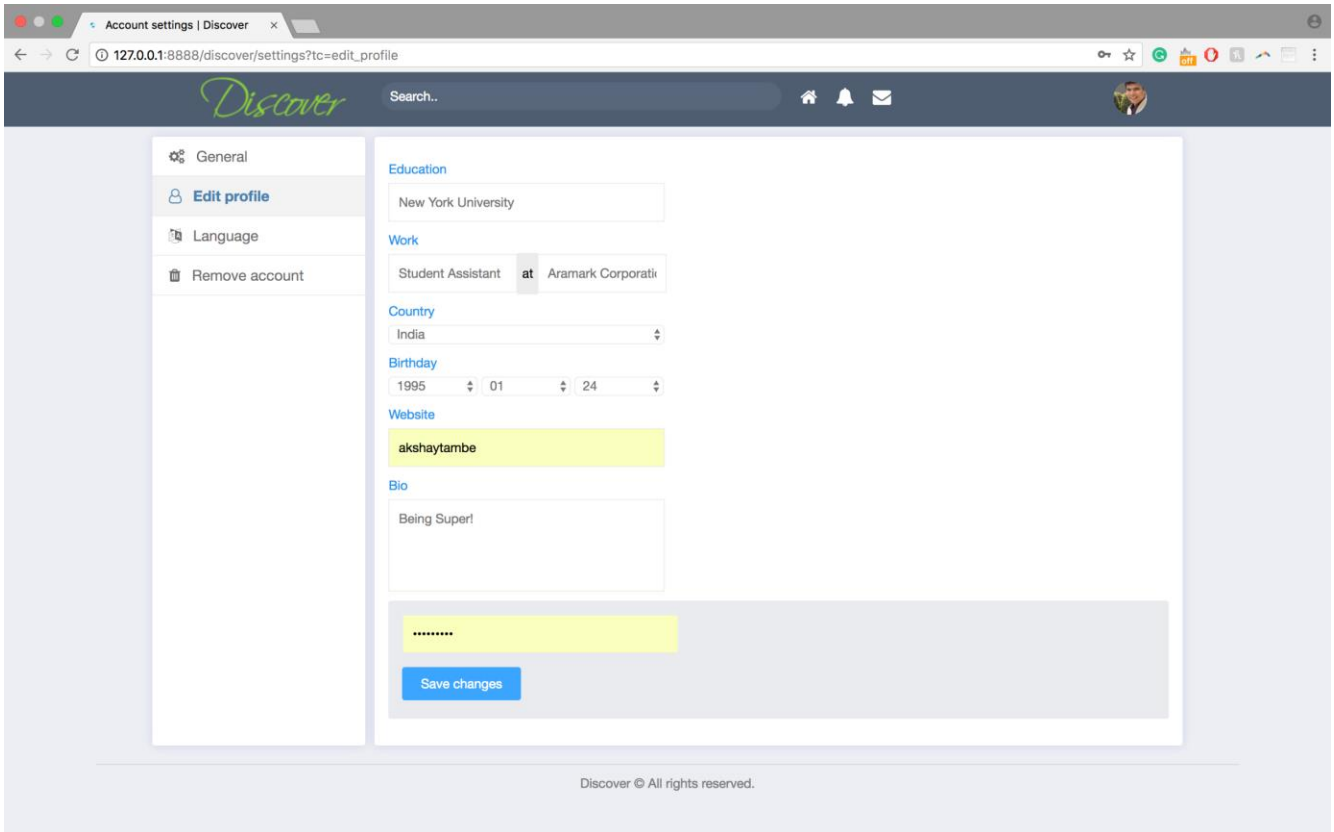


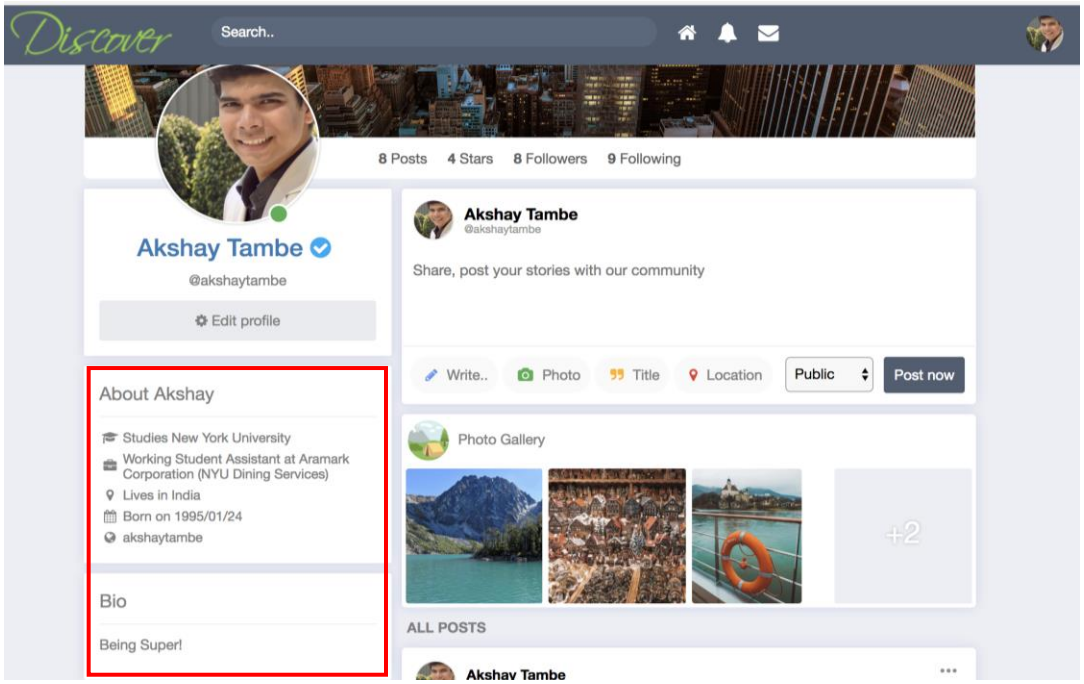

Welcome | Discover
127.0.0.1:8888/discover/
Discover
Join the Cult
Escape Routine. Explore Places. Expand Your Circle.
akshaytambe
Forgot your password?
Login
Don't have an account? Sign Up for free


127.0.0.1:8888/discover/home
Discover
Search..
Akshay Tambe
@akshaytambe
Edit profile
Photo Gallery
Settings
PERSONAL MEMOS
New Memo
Demo Project
Saved Memos 1
ACTIVITY LOGS
Manjiri Acharekar
Onkar Salvi
Gayathri Manimaran
Srushti Gawand
Saved Memos
MORE
Archived Posts
Support Forum
Feedback
Akshay Tambe
@akshaytambe
Share, post your stories with our community
Write..
Photo
Title
Location
Public
Post now
Manjiri Acharekar
5 hours
Shared a post
@ On Discover
Madhumita Sawant
3 days
My Vacation at South Carolina
@ Myrtle Beach, SC, USA
Hey Travel Enthusiasts!
As the largest resort along South Carolina 60-mile Grand Strand, Myrtle Beach is the East Coast is ultimate vacation hub. The town teems with summertime action: beaches dotting the Strand, amusement and water parks, restaurants and live entertainment. Myrtle Beach is actual beach is an extensive stretch of silky white sand, with opportunities for fishing, swimming, sunbathing, sailing and surfing.
TRENDING - WORLDWIDE
PAGES
POSTS
Manjiri Acharekar
@manjiri
Akshay Tambe
@akshaytambe
Onkar Salvi
@onkarsalvi
Madhumita Sawant
@madhumita
Gayathri Manimaran
@gayathri
Bhaskar Shenoy
@bhaskarshenoy

Edit Profile

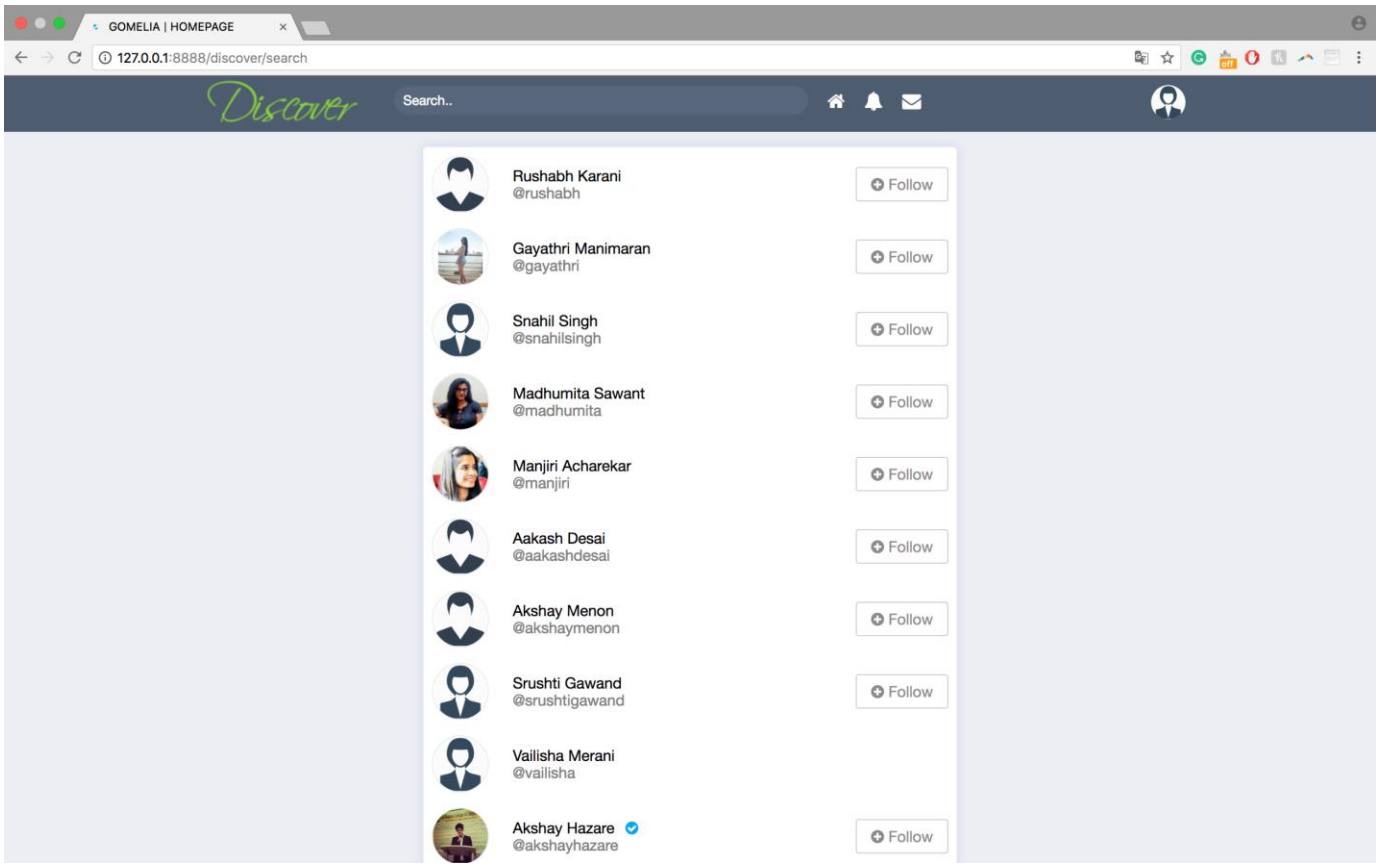
- User can edit basic Profile Information
- Confirmation to save changes is done using validating password.
- These changes are maintained in the User Profile Page.





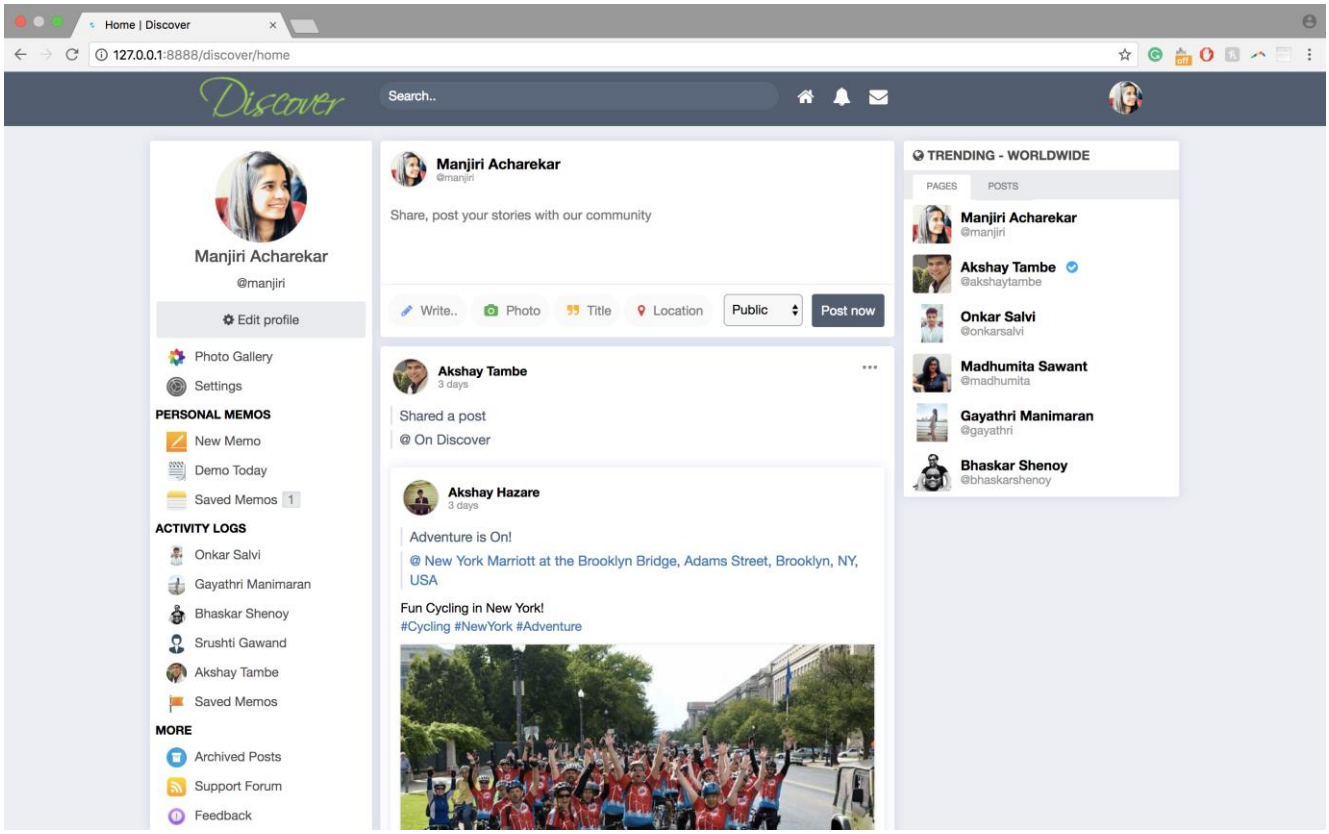
Follow and Unfollow Friends

- Relationship graph is maintained at backend as soon as the user follows a friend.
- User can also unfollow a followed friend.
- Notifications are send to the user who is being followed by the user.
- Homepage gets updated as soon as the user follows some friend showing the friends posts.
- Messaging service gets enabled for followed friends.



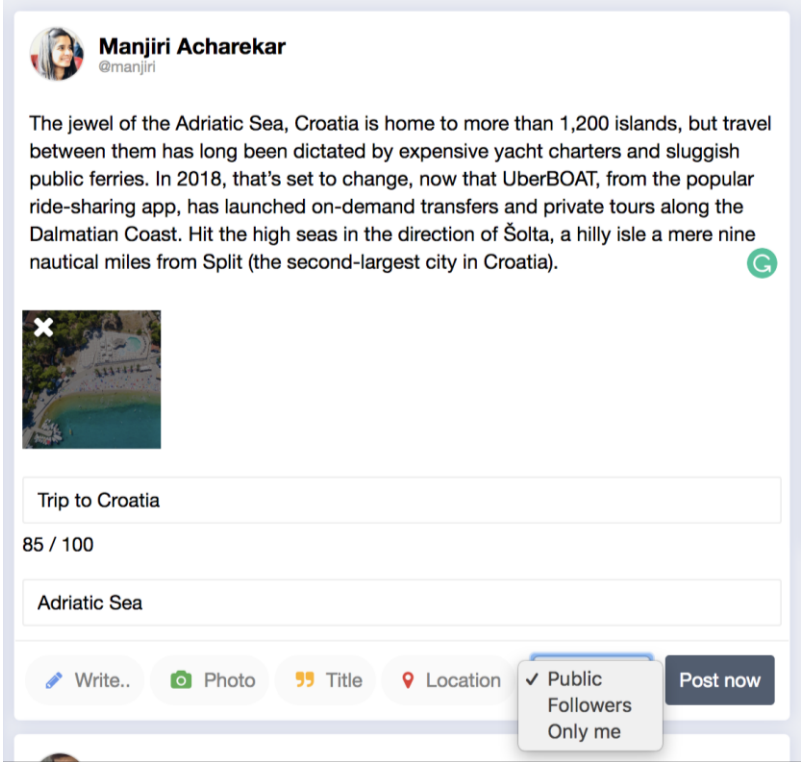
Activity Post

- Activity feed shows posts from the followed friends. If the followed friends post is given proper view privileges such as followers-only or public privilege, then the user can see the post.
- Dashboard has options to edit profile, edit Memos, send Feedback through Support Forum.
- Also, notifications can be seen at the top of the dashboard for new messages, comments, likes, followers and shared posts.
- There is one more section on the right-hand side to see Trending Posts and Pages to be followed or shared.



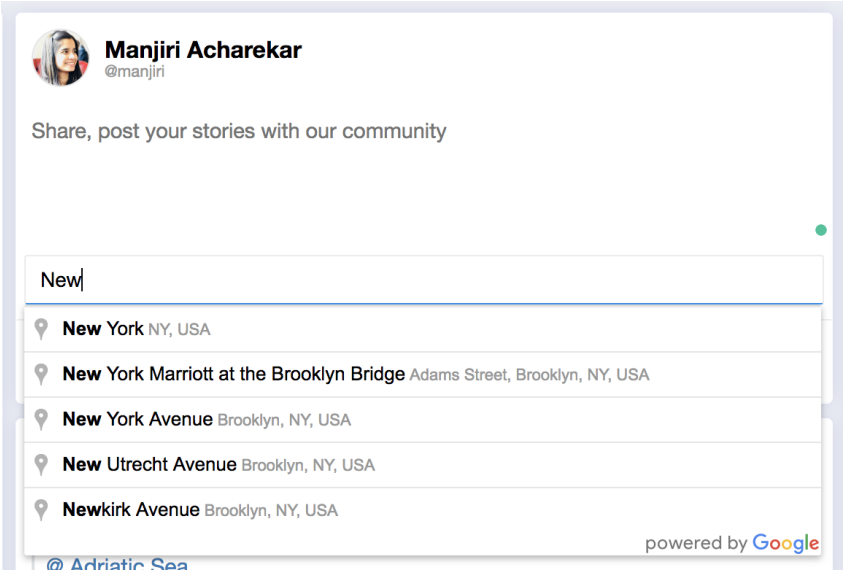
Post Entry

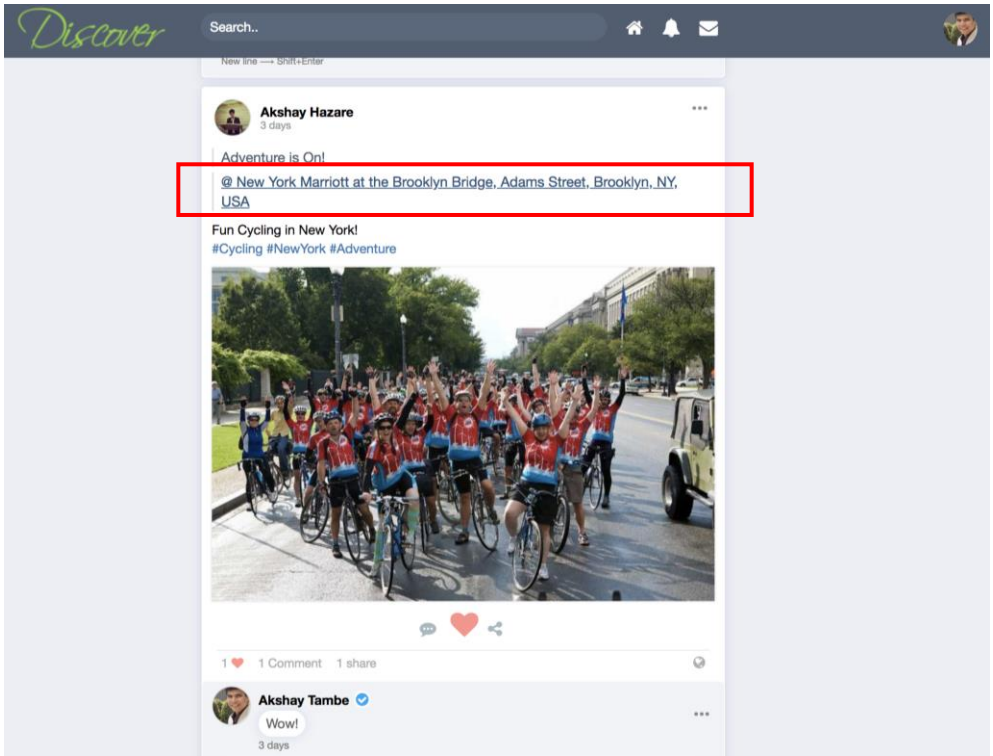
- User can share his travel experience through their Posts with the Discover Community.
- User can add Title, description, location, some multimedia in the Post.
- View privileges can be also given to the post.
- A post can be edited several times. Also, a shared post can be edited.

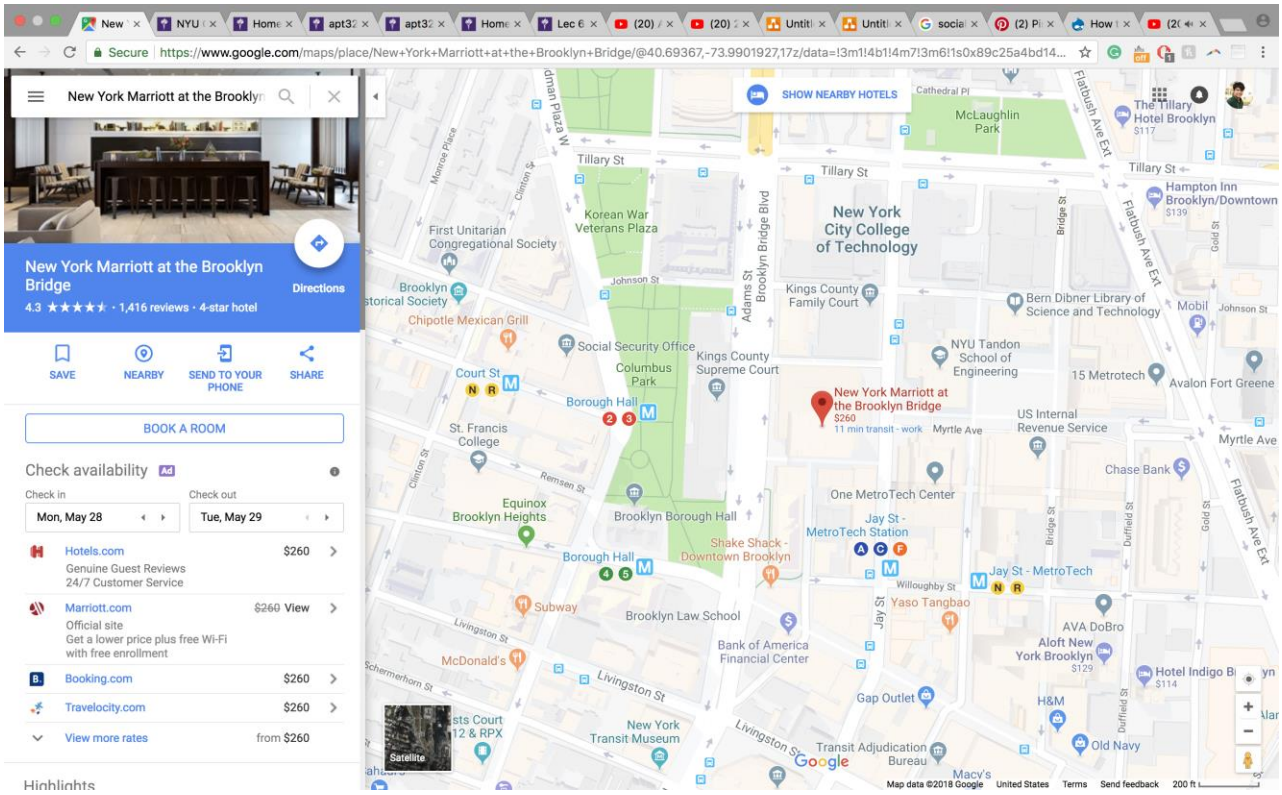


Add Location

- Location can be added to the Post for the adventure activity.
- Location suggestions are given as the website is integrated with Google Maps API.
- While viewing the locations, users can click on the link of the location and they will be redirected to Google Maps to view the location on the map.

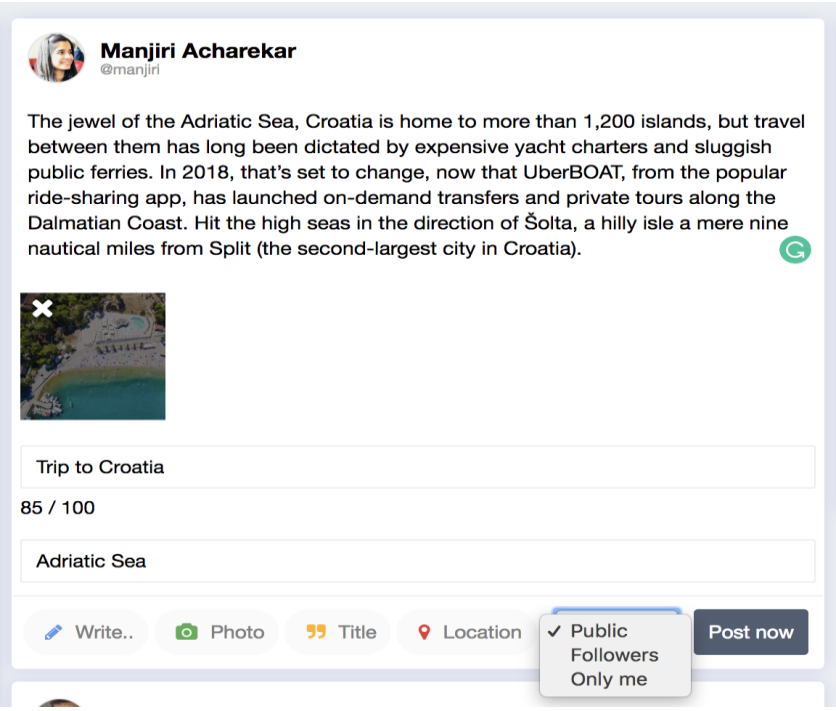



Discover
Search..
Akshay Hazare
3 days
Adventure is On!
@ New York Marriott at the Brooklyn Bridge, Adams Street, Brooklyn, NY, USA
Fun Cycling in New York!
#Cycling #NewYork #Adventure
1 Comment 1 share
Akshay Tambe
Wow!
3 days


New York Marriott at the Brooklyn Bridge
4.3 ★★★★ · 1,416 reviews · 4-star hotel
Directions
SAVE
NEARBY
SEND TO YOUR PHONE
SHARE
BOOK A ROOM
Check availability
Check in
Mon, May 28
Check out
Tue, May 29
Hotels.com $260
Genuine Guest Reviews
24/7 Customer Service
Marriott.com $260 View
Official site
Get a lower price plus free Wi-Fi with free enrollment
Booking.com $260
Travelocity.com $260
View more rates from $260
Highlights
SHOW NEARBY HOTELS
New York City College of Technology
New York Marriott at the Brooklyn Bridge
$260
11 min transit - work
Tillary St
Johnson St
Myrtle Ave
Adams St
Brooklyn Bridge Blvd
Flatbush Ave Ext
McLaughlin Park
Korean War Veterans Plaza
First Unitarian Congregational Society
Chipotle Mexican Grill
Social Security Office
Columbus Park
Kings County Supreme Court
Kings County Family Court
Bern Dibner Library of Science and Technology
NYU Tandon School of Engineering
15 Metrotech
Avalon Fort Greene
US Internal Revenue Service
Chase Bank
One MetroTech Center
Jay St - MetroTech Station
Jay St - MetroTech
Borough Hall
Court St
St. Francis College
Equinox Brooklyn Heights
Brooklyn Borough Hall
Shake Shack - Downtown Brooklyn
Subway
Brooklyn Law School
Yaso Tangbao
AVA DoBro
Aloft New York Brooklyn
Bank of America Financial Center
McDonald's
Gap Outlet
H&M
Old Navy
New York Transit Museum
Transit Adjudication Bureau
Macy's
Hotel Indigo Brooklyn
Hampton Inn Brooklyn/Downtown
The Tillary Hotel Brooklyn
Satellite
Map data ©2018 Google
United States
Terms
Send feedback

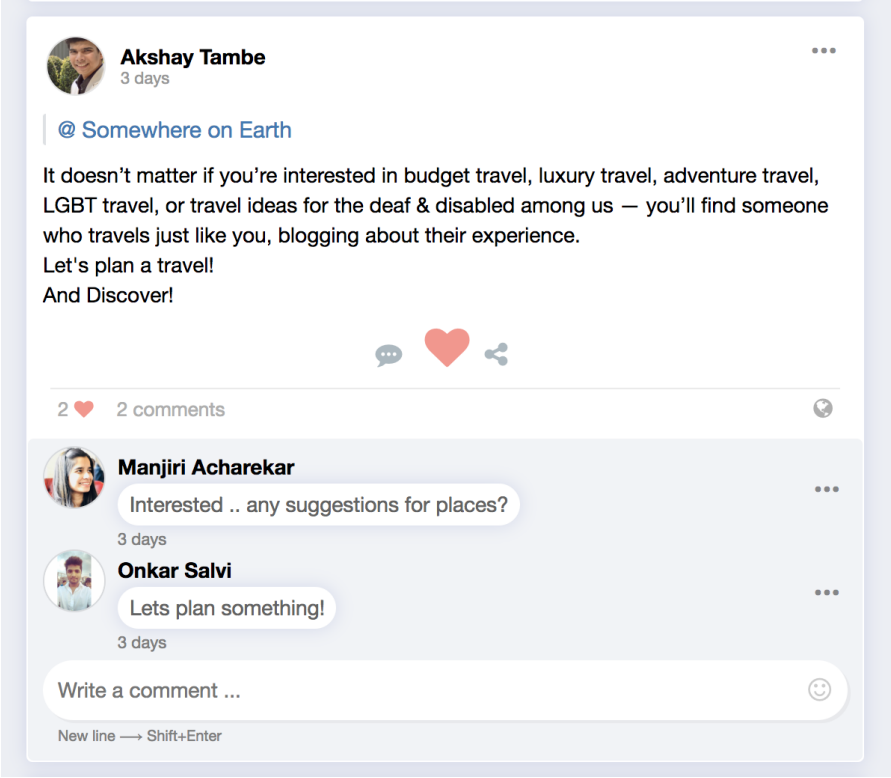
View Privileges

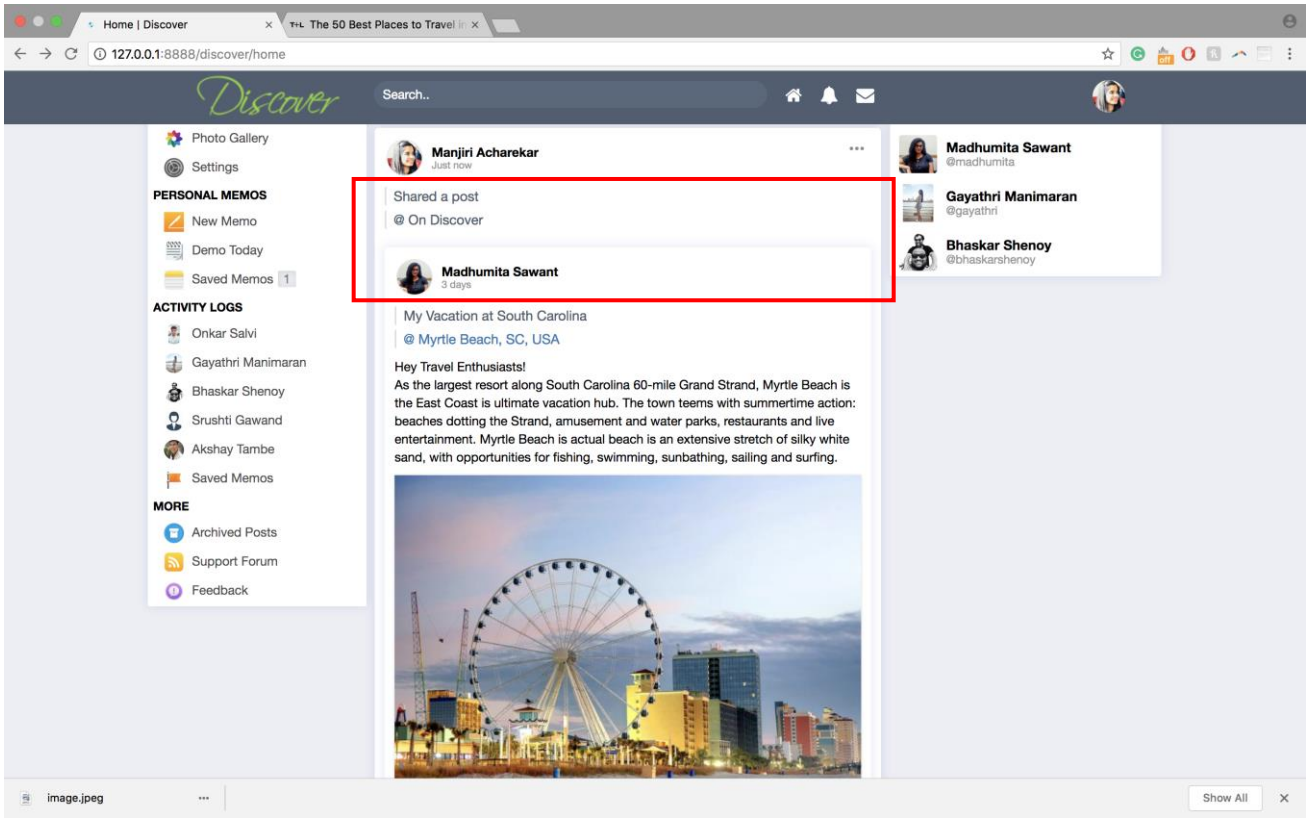
- View privileges are given to the post. Public posts are for everyone who has signed up on the website. Followers are only for the friends who follow the specific user. And only me is just for the user.



Like, Dislike Comment and Share Post

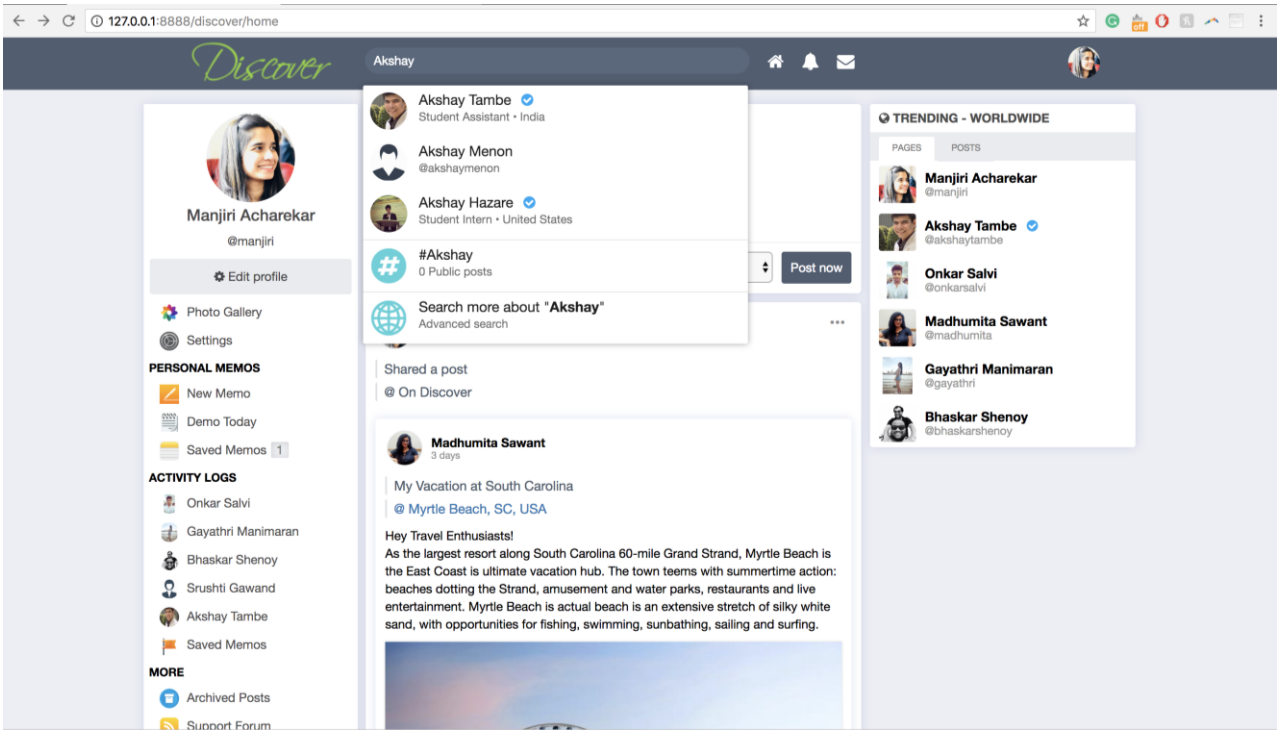
- Followers can like or dislike a post, comment on a post and share a post.

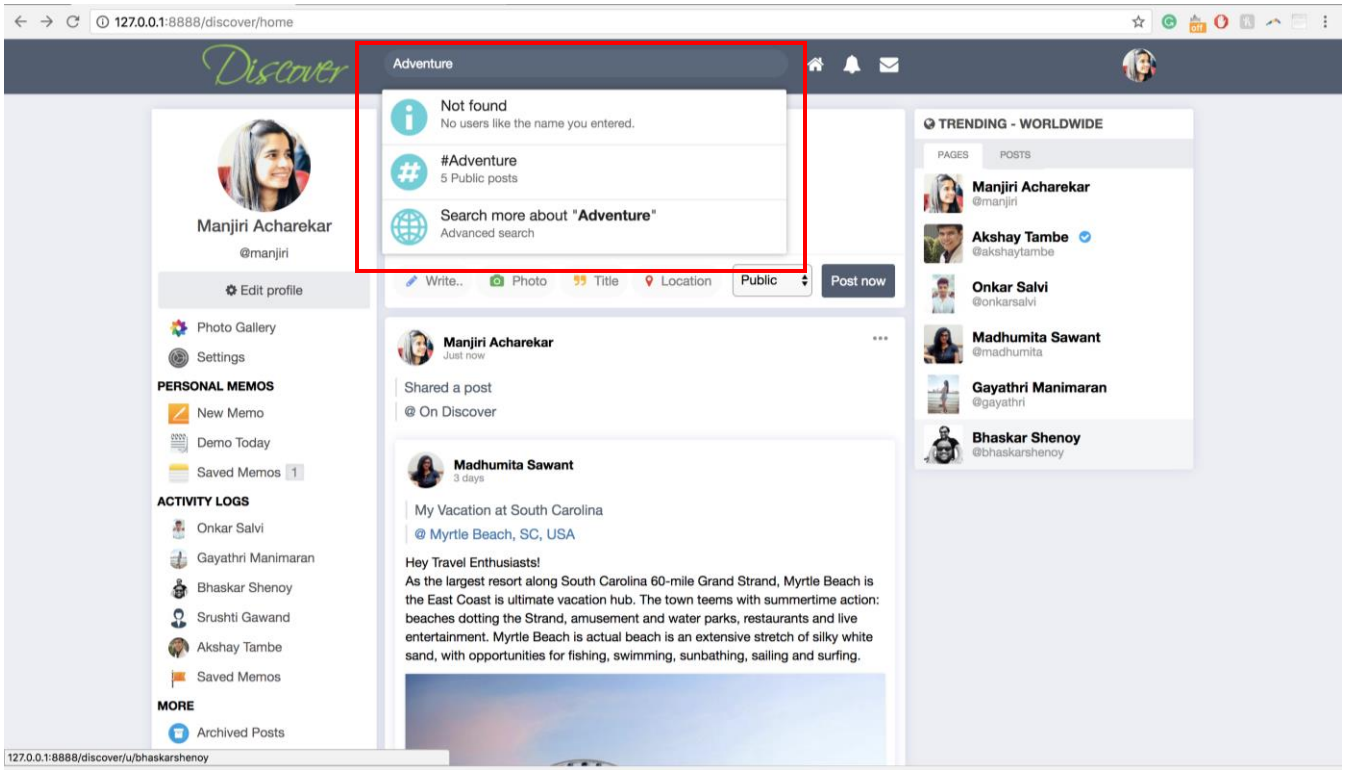


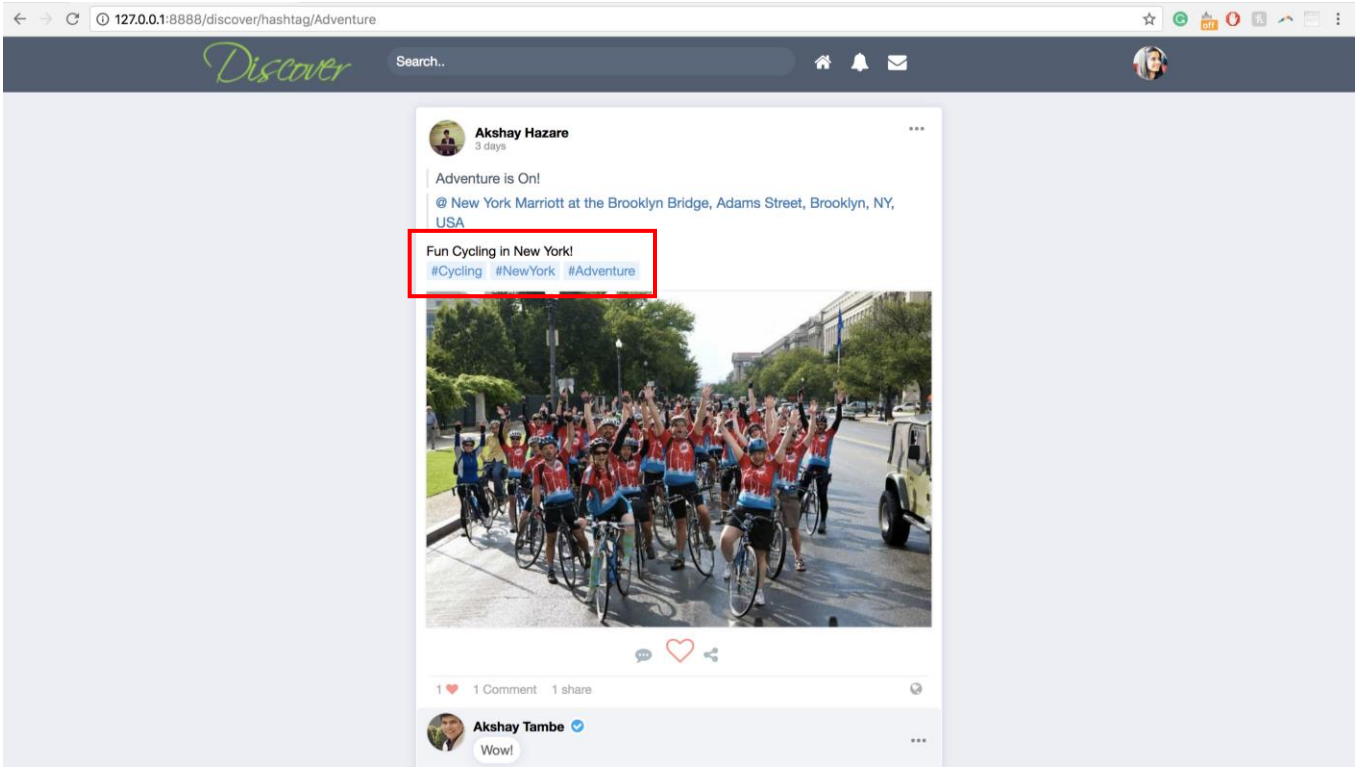


Search Friend and Posts

- A user can search friends on the basis on username.
- Posts can also be searched according to hashtags used on the Posts.
- The search-box will give suggestions for the search.

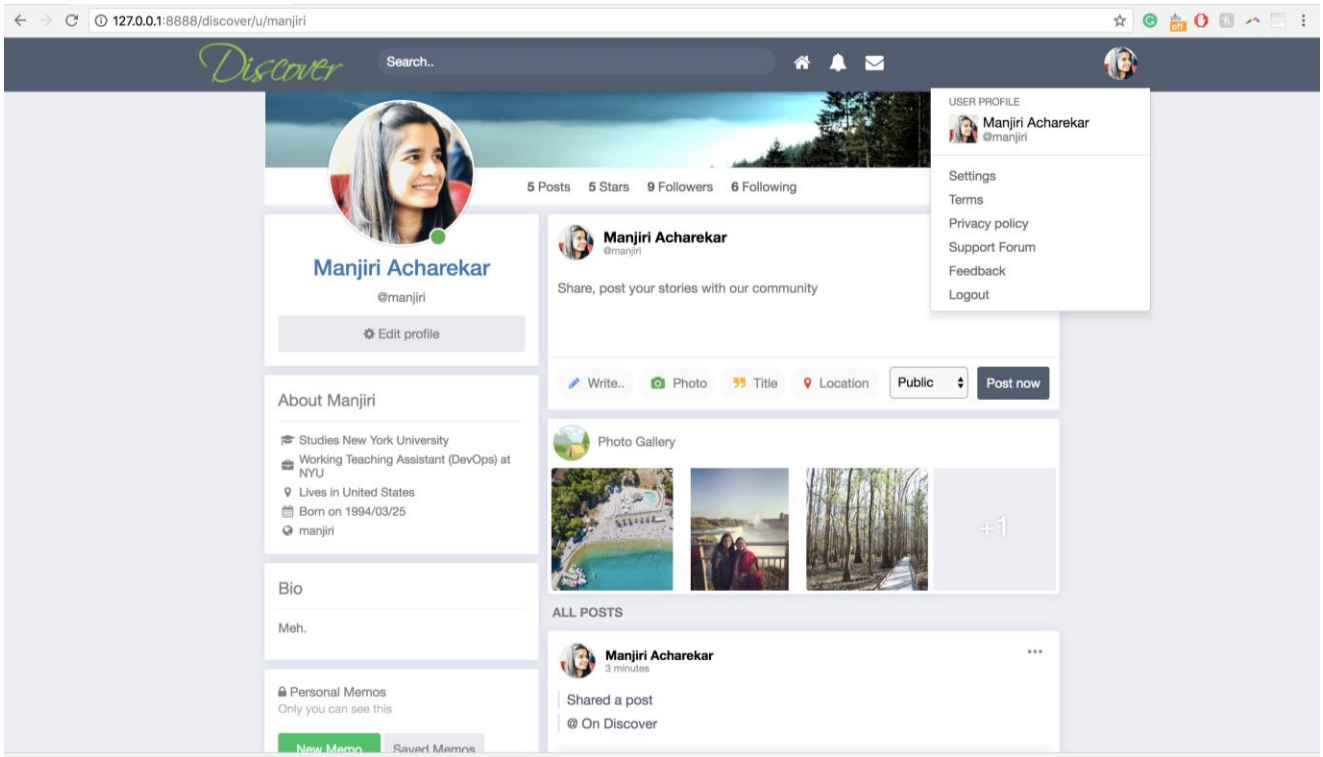


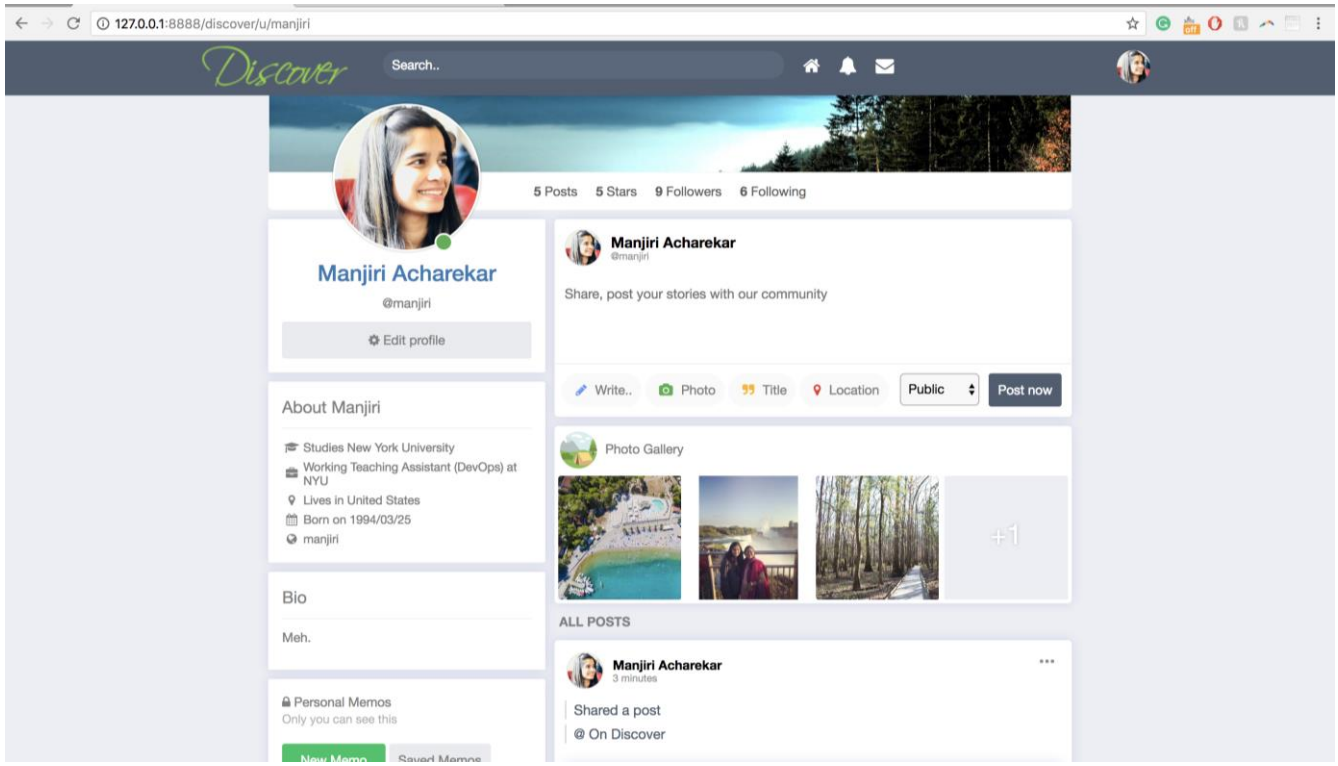

127.0.0.1:8888/discover/home
Discover
Adventure
Not found
No users like the name you entered.
#Adventure
5 Public posts
Search more about "Adventure"
Advanced search
Manjiri Acharekar
@manjiri
Edit profile
Photo Gallery
Settings
PERSONAL MEMOS
New Memo
Demo Today
Saved Memos 1
ACTIVITY LOGS
Onkar Salvi
Gayathri Manimaran
Bhaskar Shenoy
Srushti Gawand
Akshay Tambe
Saved Memos
MORE
Archived Posts
Write..
Photo
Title
Location
Public
Post now
Manjiri Acharekar
Just now
Shared a post
@ On Discover
Madhumita Sawant
3 days
My Vacation at South Carolina
@ Myrtle Beach, SC, USA
Hey Travel Enthusiasts!
As the largest resort along South Carolina 60-mile Grand Strand, Myrtle Beach is the East Coast is ultimate vacation hub. The town teems with summertime action: beaches dotting the Strand, amusement and water parks, restaurants and live entertainment. Myrtle Beach is actual beach is an extensive stretch of silky white sand, with opportunities for fishing, swimming, sunbathing, sailing and surfing.
TRENDING - WORLDWIDE
PAGES
POSTS
Manjiri Acharekar
@manjiri
Akshay Tambe
@akshaytambe
Onkar Salvi
@onkarsalvi
Madhumita Sawant
@madhumita
Gayathri Manimaran
@gayathri
Bhaskar Shenoy
@bhaskarshenoy
127.0.0.1:8888/discover/u/bhaskarshenoy

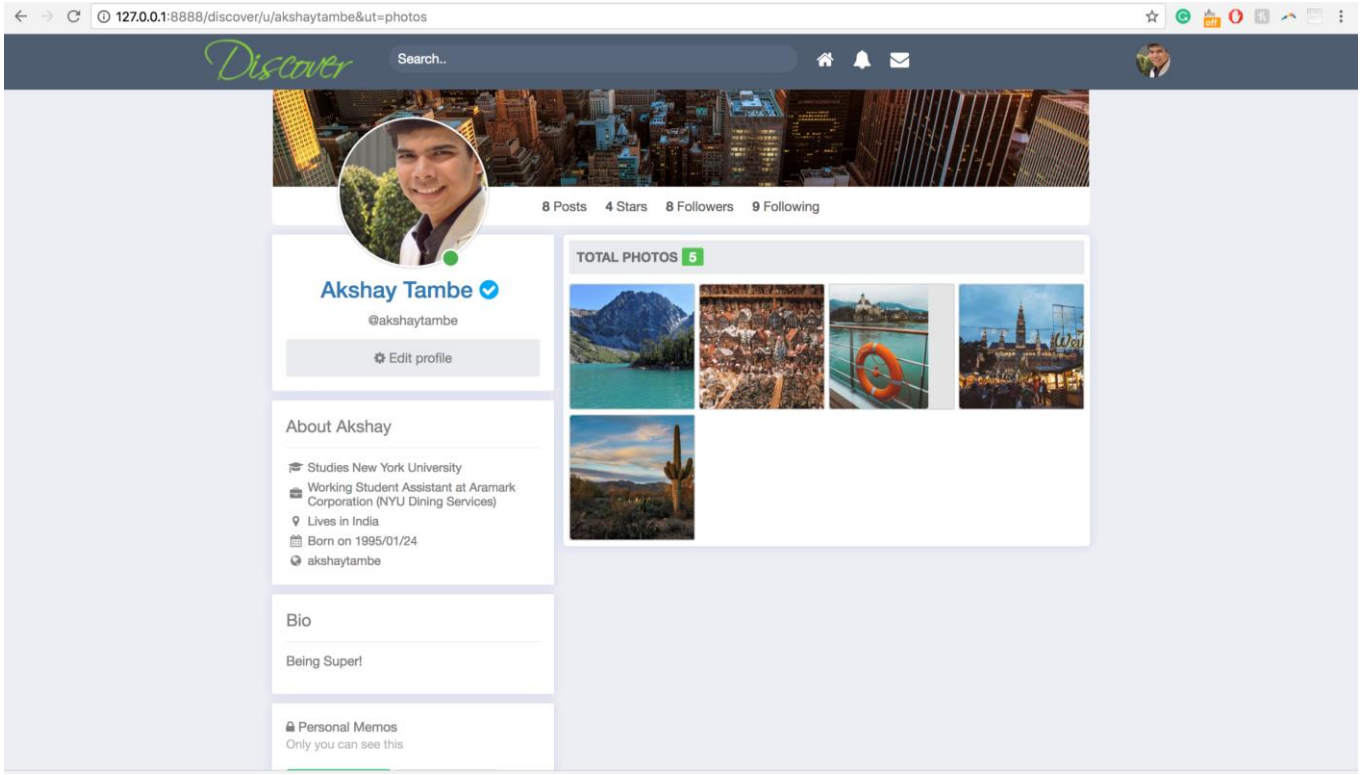

127.0.0.1:8888/discover/hashtag/Adventure
Discover
Search..
Akshay Hazare
3 days
Adventure is On!
@ New York Marriott at the Brooklyn Bridge, Adams Street, Brooklyn, NY, USA
Fun Cycling in New York!
#Cycling #NewYork #Adventure
1 1 Comment 1 share
Akshay Tambe
Wow!

User Interface and User Session

- User sessions are maintained after sign in.
- If the user logouts from his page, he must sign in again to access the website.
- User interface is a single dashboard for activity feed.
- There is a separate user profile page to access just his own posts and settings.



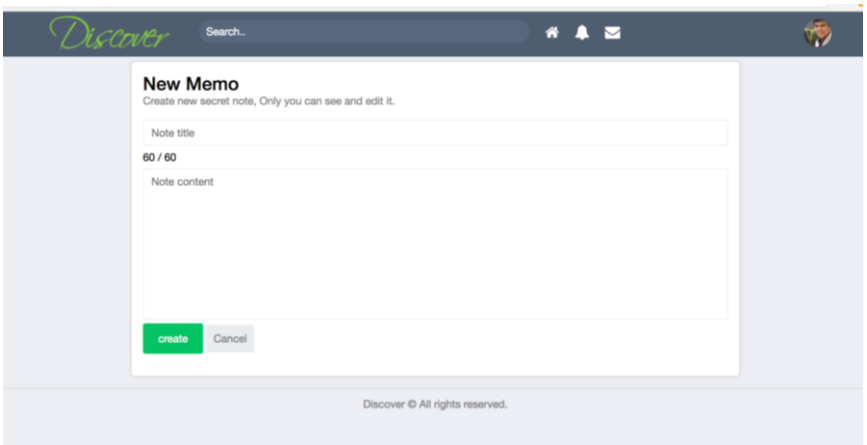


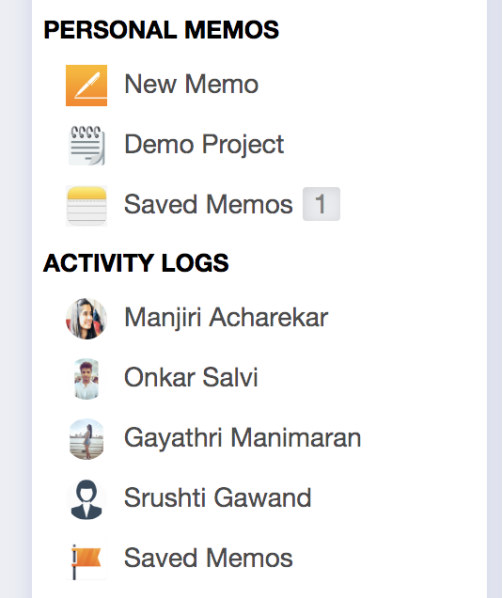


Features Extra Credit

Diary Posts

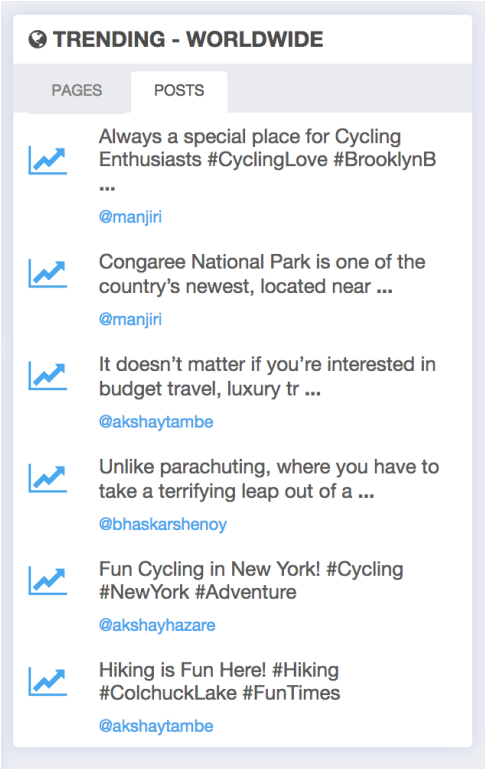
- Personal Memos, Reminders, Notes are maintained in the Diary Posts.
- These are only visible to the user.

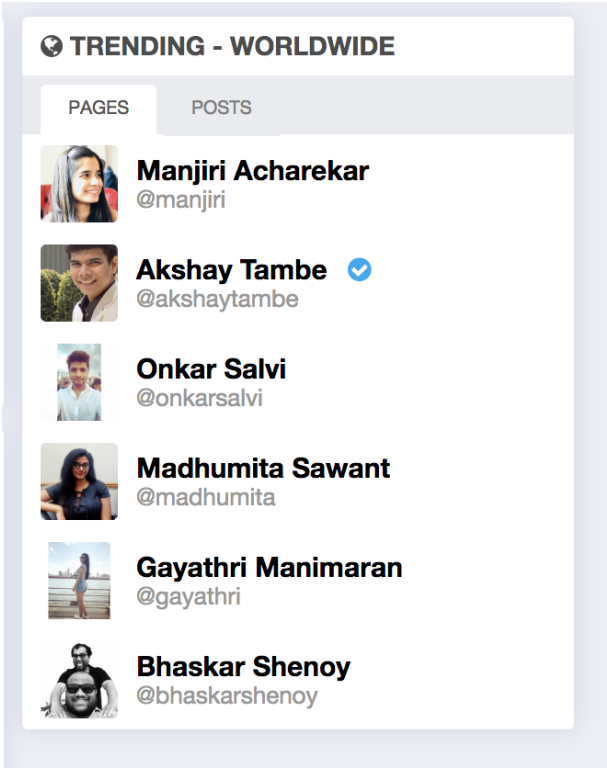




Trending Posts and Users

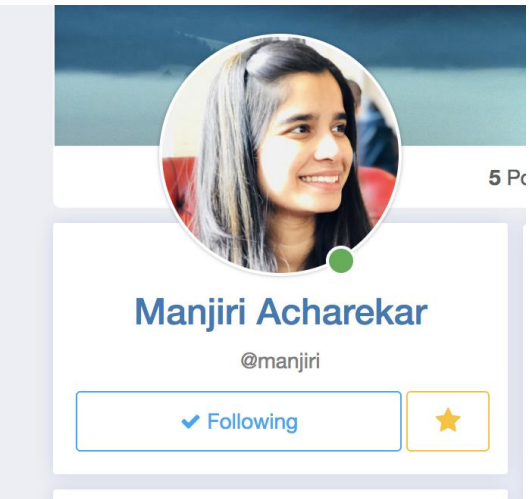
- Trending Posts and Trending Users are visible on the dashboard to follow more people.
- This is based on the basis of most liked or famous posts in the community.





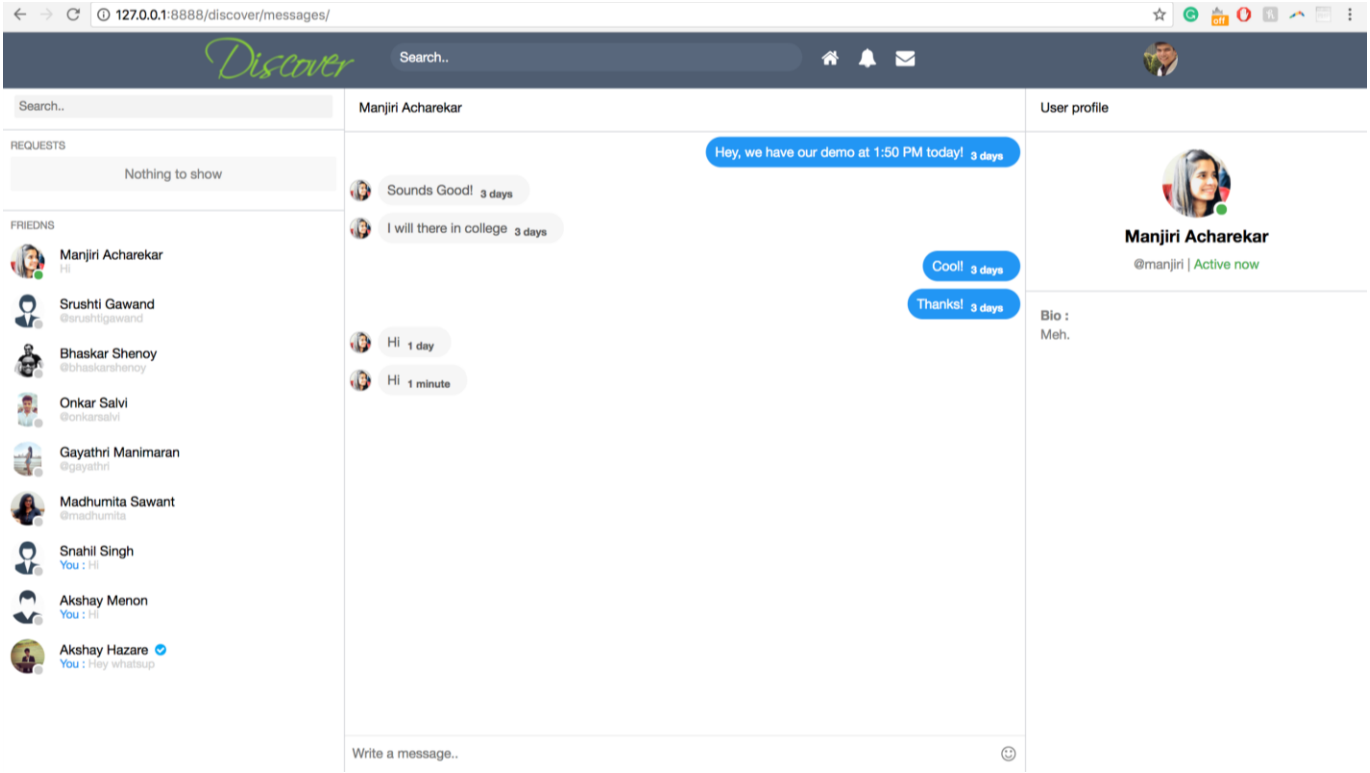
Favorite Friend

- A friend can be stared as Favorite.
- The favorite friend posts will be seen in the activity feed first.



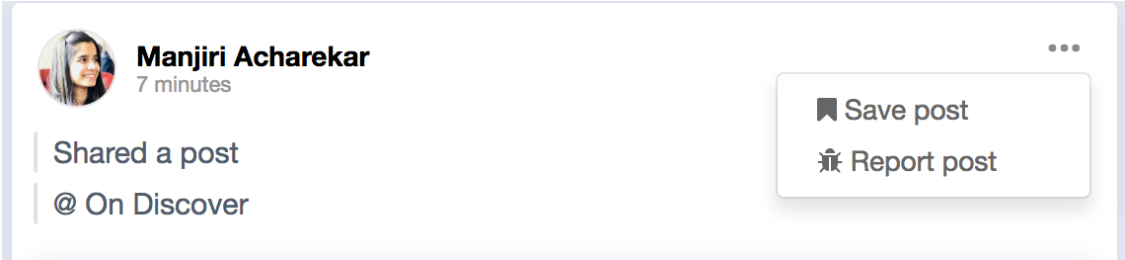
Messaging

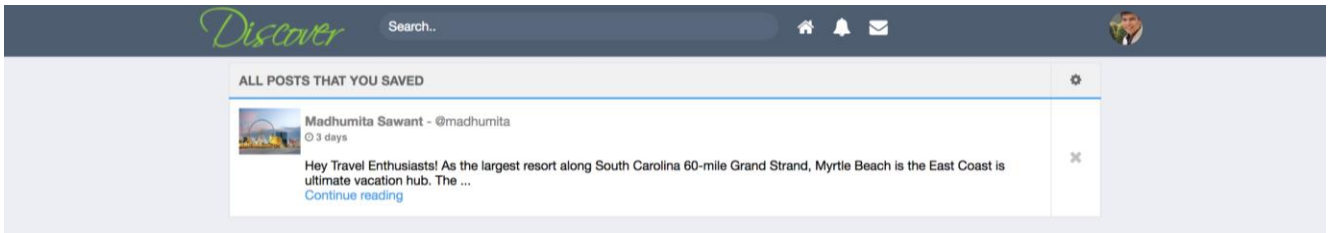
- Messaging service helps to communicate with friends on one to one basis.
- Messaging can be only done with followers.
- Notifications are received by the user if someone sends him message.
- A seen message is displayed if the message is read by the follower.



Save and Report Posts

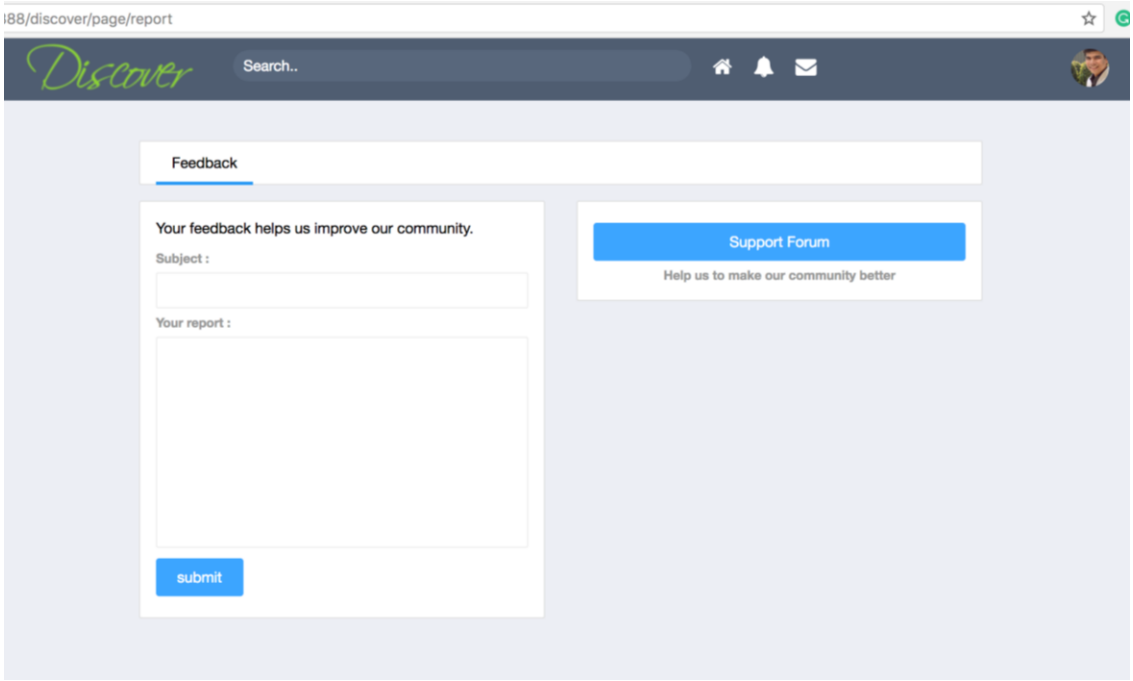
- A user can save posts of the friends.
- It is a read it later or review it later feature.
- A post can be even reported if there's something unusual about the post.

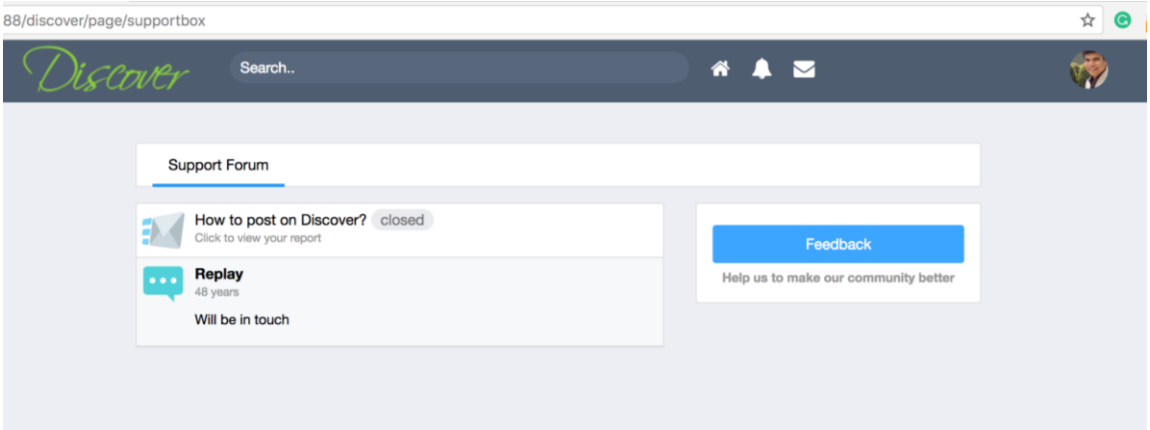




Support Forum and Feedback

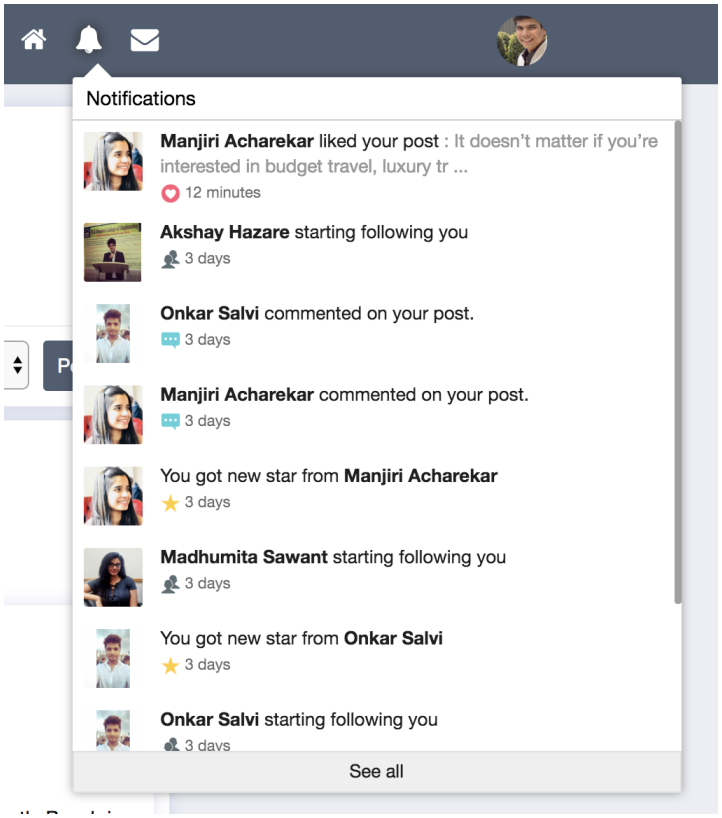
- User can send complaints or any feedback to the support team.
- The support team is handled by the Admin.
- The Admin is responsible to respond to the feedbacks of the users.





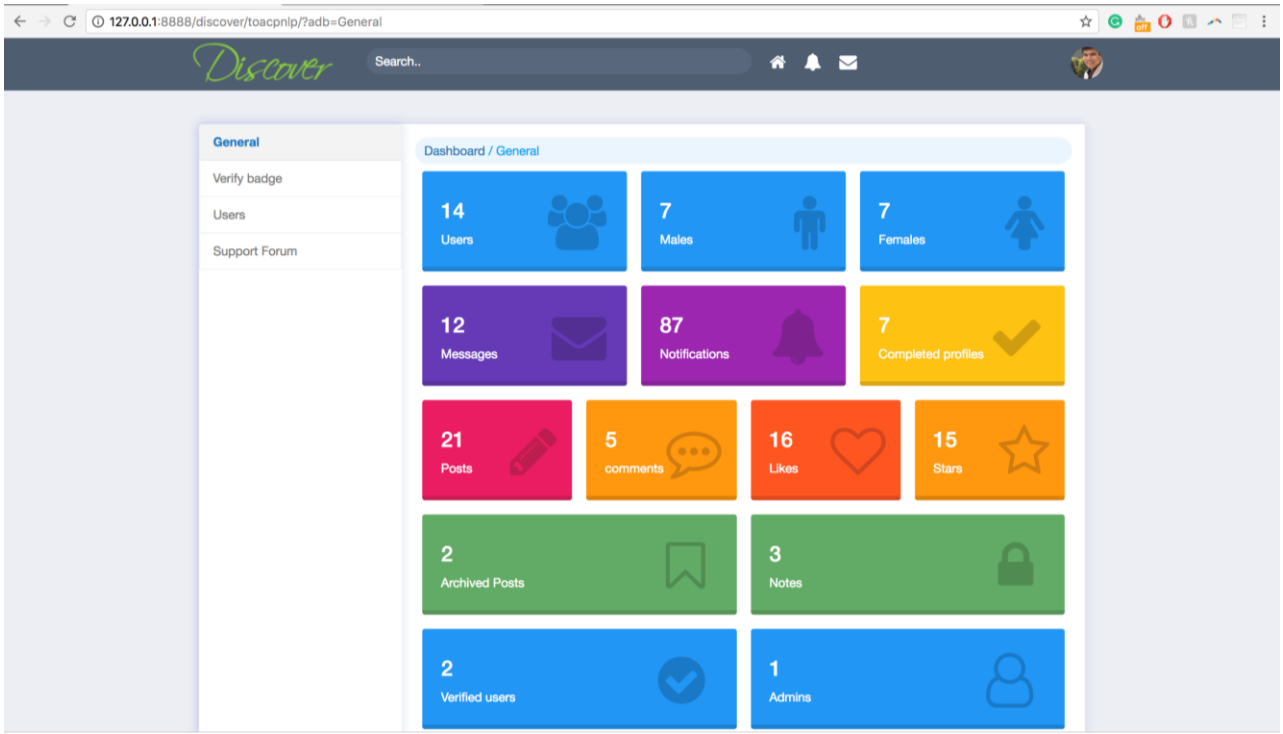
Notifications

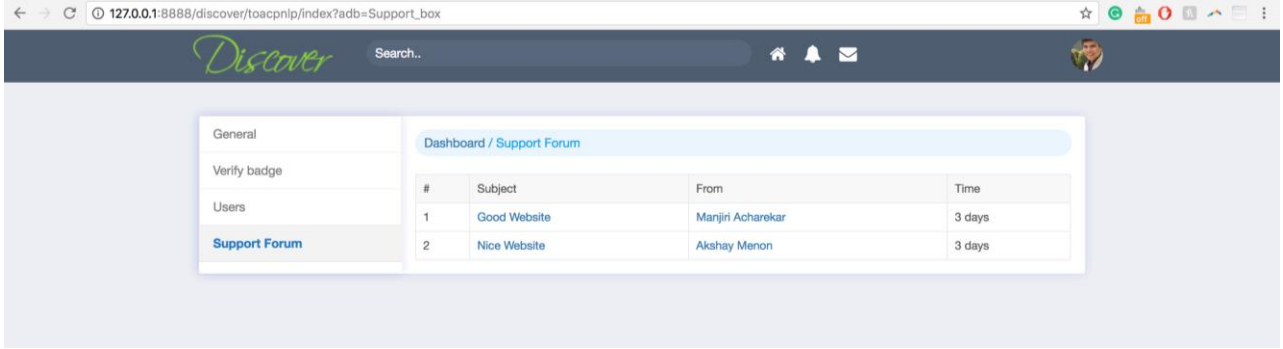
- Notifications are received by the user if someone follows him, sends him message, likes his post, comments on his post or shares his post.
- Also, if someone's adds you as a Favorite friend.



Admin Control

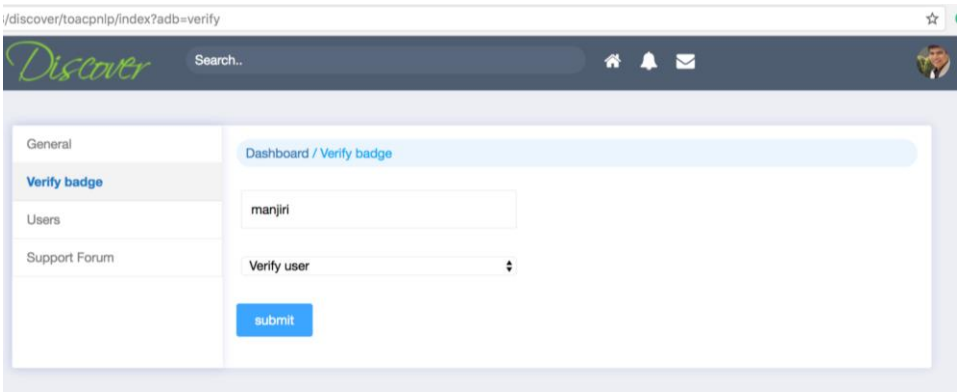
- Admin is the first user in the database.
- Admin can control the website and has all the statistics about the website.
- Admin can maintain the user database.
- Admin can reply to the Feedback messages.





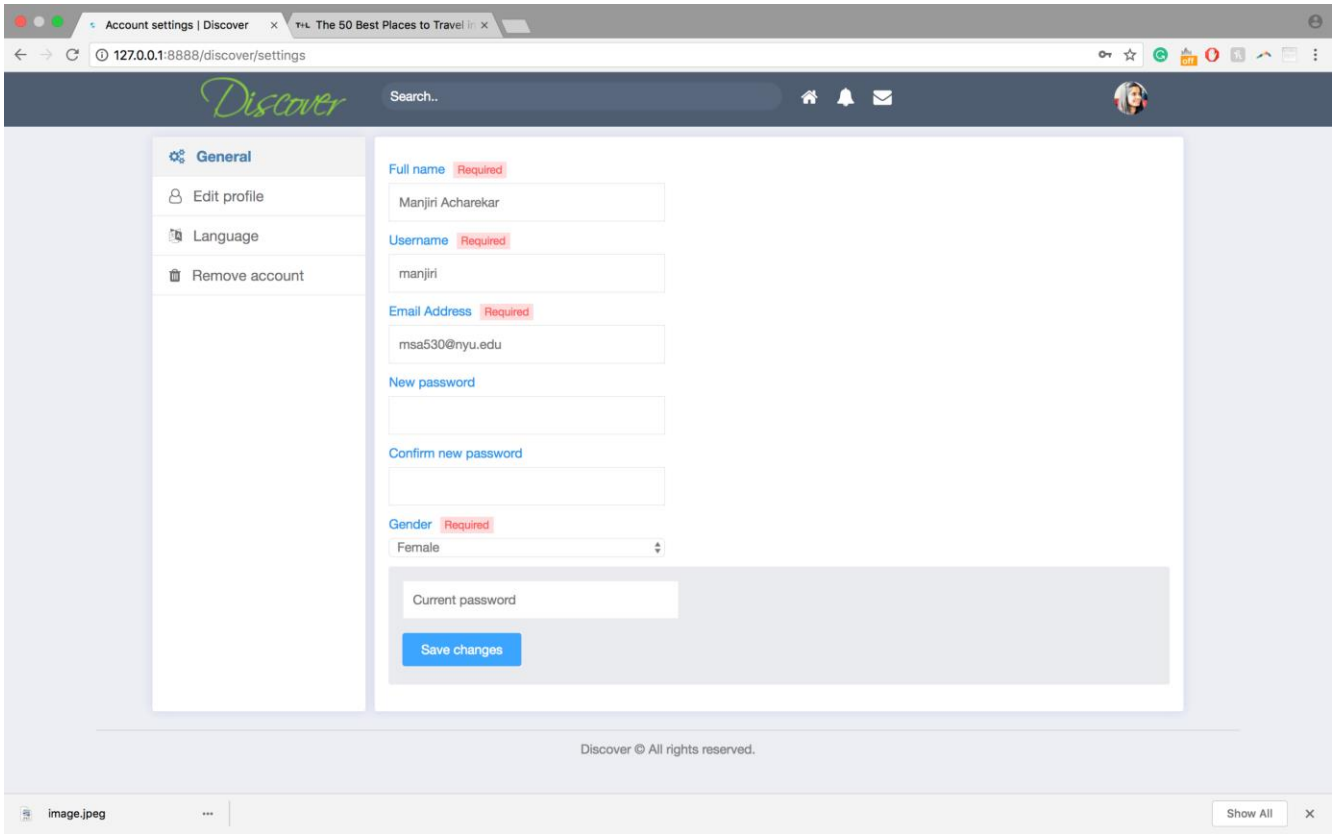
Verification of Account

- Admin can verify the user as a "Verified User" with a blue tick.
- A verify badge will appear alongside the user's username on his profile.



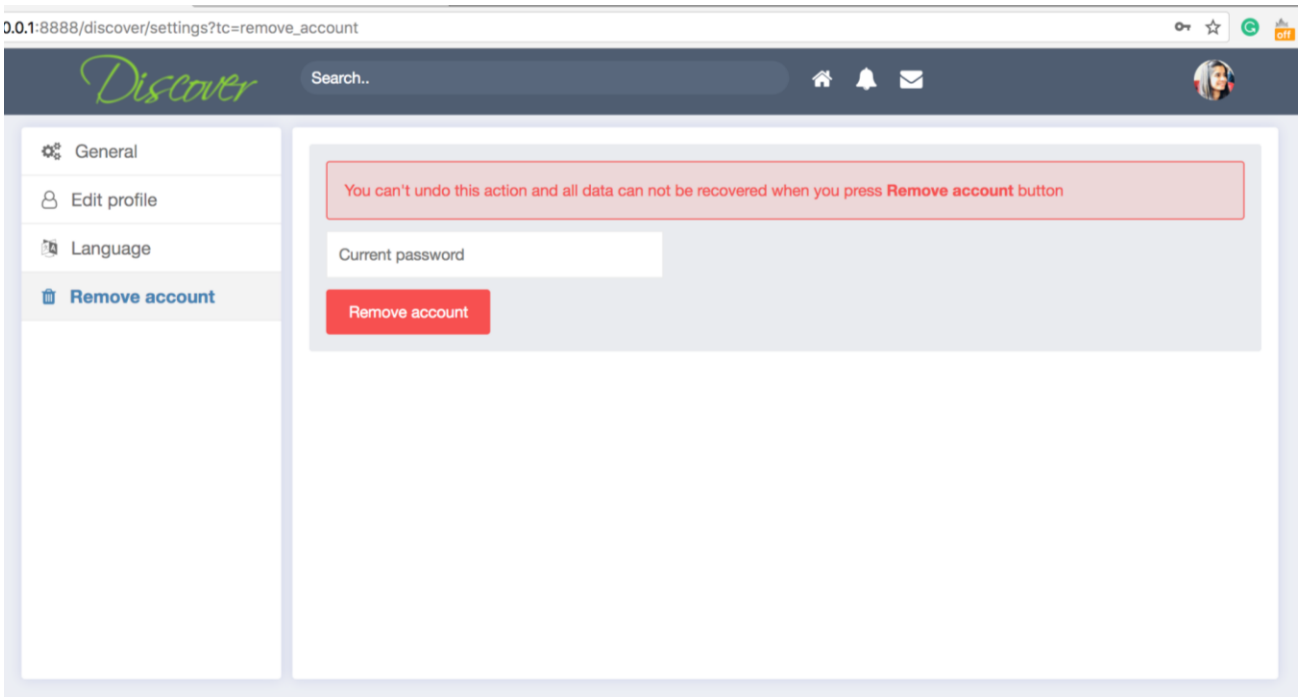
Extra Settings

- Users can change their username, passwords, email address in general settings.



Remove Account

- Users can delete their account if they are no longer going to use the website.
- Everything related to the user's profile will be wiped off.



Further Scope:

- The further scope of the project will include more features on the website.
- Users can plan a trip together and can mark their decision if they plan to take that trip.
- Group chat facility can also be implemented for group member to chat together.
- Stories that can be viewed just for one day can also be implemented.

Github Link:

https://github.com/akshaytambe/Discover