BigApple

-An Office Networking Platform

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Introduction

Big Apple is an application that allows all the employee to connect and update each other with their existing projects, form teams to contribute to projects, update their skills and interest in their profiles, add certifications, share pictures and location of the conferences,events and socialize with other employee across the firm.

Following are the *functionalities of the system*:

Create/Register a Big Apple profile:

All employee's of the organization are allowed to create a profile on Big Apple. The employee can make the profile public or private upon his discretion. Once the employee deletes his profile, all the data corresponding to the employee profile will be deleted.

Create or Update Posts on the Wall:

Employees can create and update posts on their wall. The posts can be anything specific to the employee. Examples of which can be all the courses that he is takes, his views on modern technologies, hotlinks to his github repository, twitter handle etc. He can also create post specific to the project and provide his team explicitly to view the content.

Network and build relationships:

Big Apple allows an employee to network and collaborate with other employees by sending a connect request. An employee can also use Big Apple to form teams and collaborate with the team members in project activities. Connection can be team, friends or distinct friends given the scenario.

Upload Multimedia Contents:

Employees can post pictures, videos etc of presentation, conferences, training resources with Big Apple providing the provision to either share it across team or across the organization.

Adding Location details and Comments :

Employees can post their location details on Big Apple that allows others to know where you are. This feature can be used when the employee attends a event and would like to showcase his presence across the organizations. Big Apple allows an employee to comment on post and also allows him to make the comment restricted to Team or Public .

Likes:

Employees can like posts, comment or multimedia contents posted by an employee.

Entity Relational Model
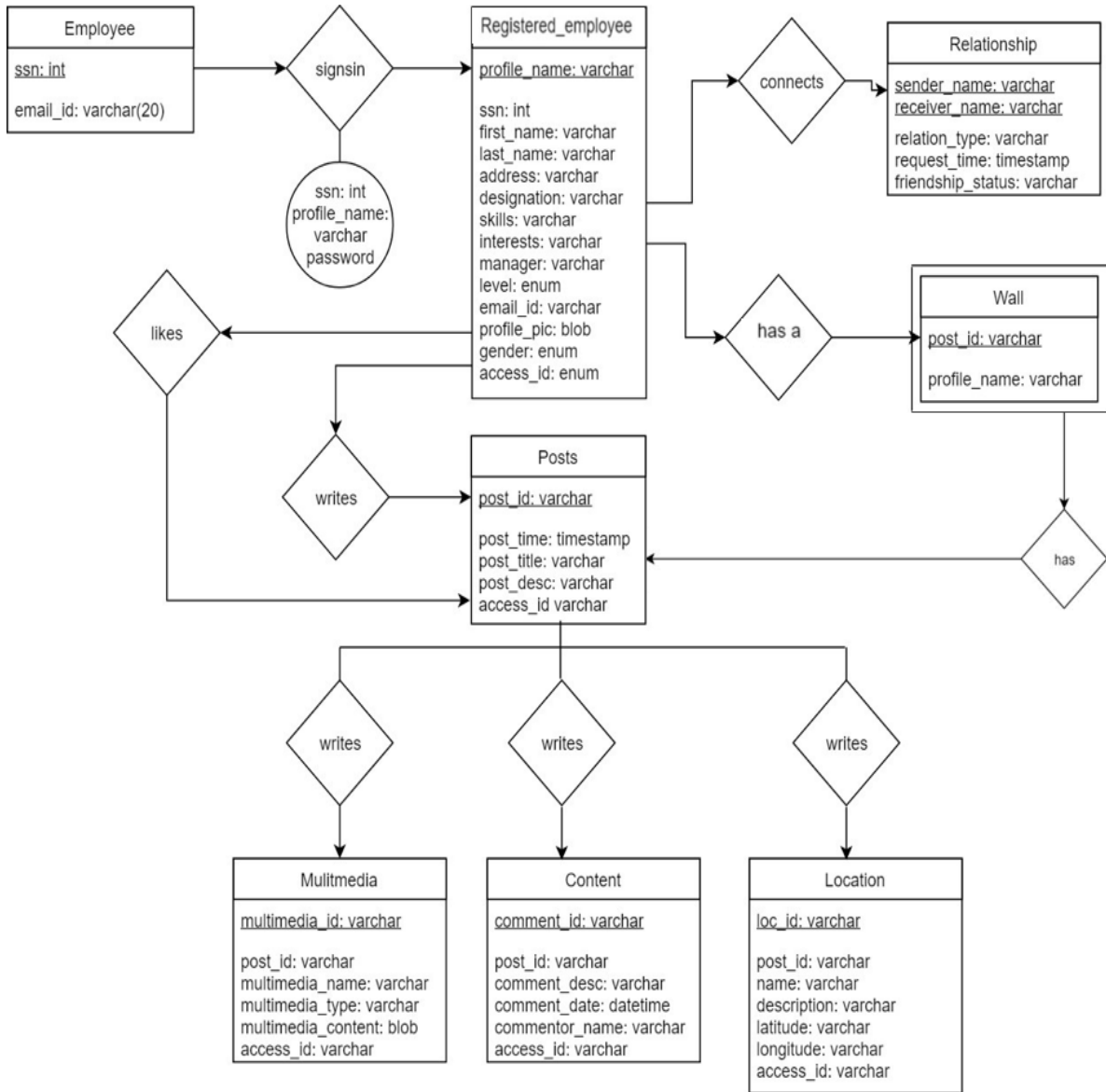
Schema Description

Relational Schema:

- Employee (**ssn,**email_id)

- signin (ssn,password)

- registered_employee (**profile_name**, ssn, first_name, last_name, address, designation, skill, interests, manager, level, access_id, email_id, profile_pic, gender)

- post (**post_id**, post_date, post_title, post_desc, access_id)

- wall (post_id, profile_name)

- relationship (sender_name, receiver_name, relation_type, request_time, request_status)

- comment (**comment_id**, post_id,desc, comment_date, commentor_name, access_id)

- location (**loc_id,** post_id, name, description, latitude, longitude, access_id)

- likes (**like_id**,post_id, comment_id, multimedia_id, loc_id, viewer_name, like_date)

Foreign Keys:

- ssn in signin table is a foreign key referencing the ssn in the employee table.
- ssn in the registered_employee table is a foreign key referencing the ssn in employee table.
- post_id, profile_name in wall table references the post_id in post and profile_name in the registered_employee table respectively.
- In multimedia_connent table post_id is the foreign key referencing table post.
- In comment table post_id is the foreign key referencing table post and commentor_name is the foreign key referencing table registered_employee.
- In like table likes viewer_name is the foreign key referencing table registered_employee and post_id is the foreign key referencing table post and multimedia_id is the foreign key referencing table multimedia_content and loc_id is the foreign key referencing table location.
- In relationship table sender_name references table registered_employee.

Big Apple Application Description

Big Apple is designed as a responsive web application that allows the user to collaboration, share, network across the organization. Users are encouraged to use Big Apple to share their team projects, their learning resources across the Organization. Users can build team of colleagues and collaborate working on their projects. They can post their locations and enable fellows of Big Apple to comment.

Big Apple also allows the user to post source code links that can be used by users to pull and push requests to. Multimedia content are also shared through Big Apple.
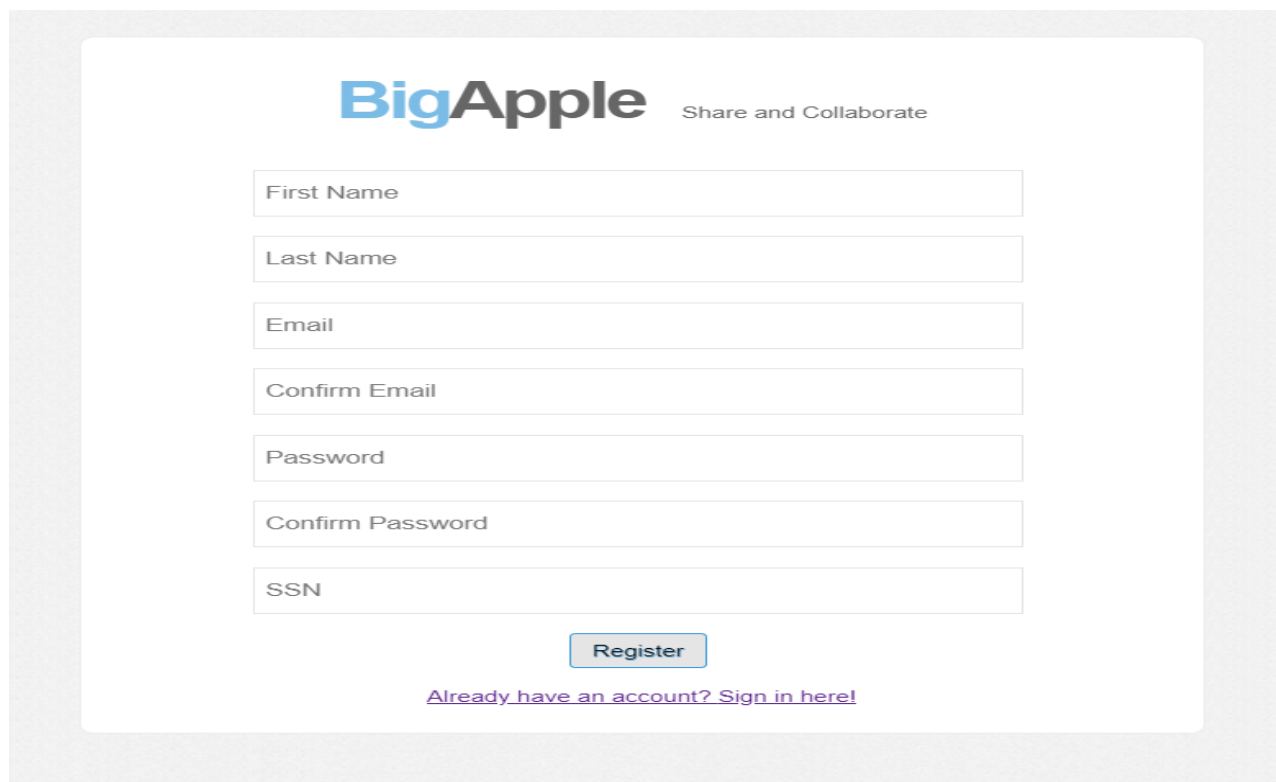
Use Cases

Employee Sign up:

Prerequisite: Only employees whose ssn are in the database are allowed to signin. If an employee is new and his ssn had not be added he should contact HR to add his id to the database.
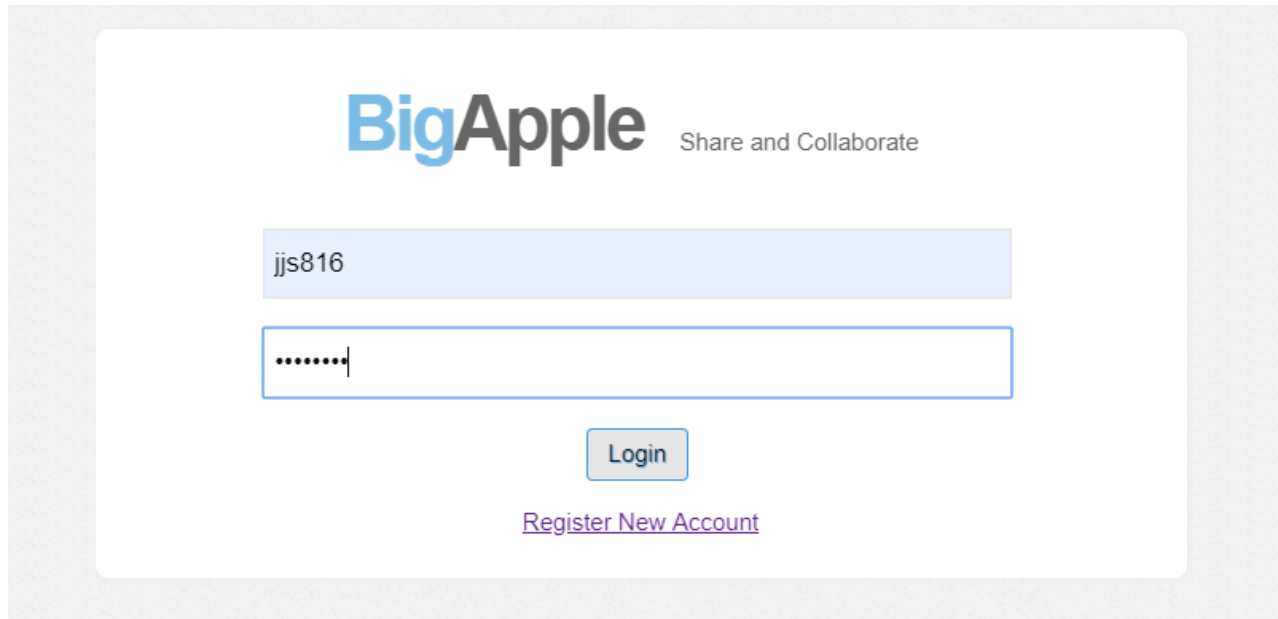
SignUp page:
- Click Big Apple.localhost.
- Select Register New Account.
- Add details as show in the form page.

Employee Login Page:

- Enter user-id
- Enter Password

Employee Home Page:

On login the employee views the home page with the follow features. (User is referred to the employee)

Features:

- List of all the pages that the user can visit from the home page.
- The number of posts posted by the user.
- The number of likes by the user.
- The Profile pic of the user.
- The area where the user can post the articles.
- The option to add Multimedia content and along with the titles.
- Options on setting the privacy level of all the posts.
- View Area for all the posts that are public and shared by friends and team-mates.
- Option to comment on the post.
- Option to like or dislike the post.
- Option to delete the post.
- Option to search for other Users in the organization.

BigApple Share and Collaborate

Search...

Home 🏠   Jay   Friends   Settings ⚙   Log out 🡒

Jay Shah
Posts: 4
Likes: 2

Got something to say?

Post

⦿ Public ◯ Private ◯ Team

Select image to upload:
Choose File   No file chosen

Upload Image   Image Title

Rahul Keswani   8 years ago
Had the best curly fries ever!

Comments(2)   Unlike 0 Like 1

Gauri Sarode   8 years ago
In the intense meeting discussion!

Comment Frame:

Gauri Sarode   8 years ago
In the intense meeting discussion!

Comments(3)   Unlike 0 Like 1

Post

Rahul Keswani   8 years ago
Where is this!

Shubham Aggarwal   8 years ago
How does this work?

7

Multimedia Posts:

Anshul Garg 4 hours ago
Multimedia

I love this show

Comments(0)   Unlike 0 Like 1

Jay Shah   1 minute ago

Microsoft shows advances in AI
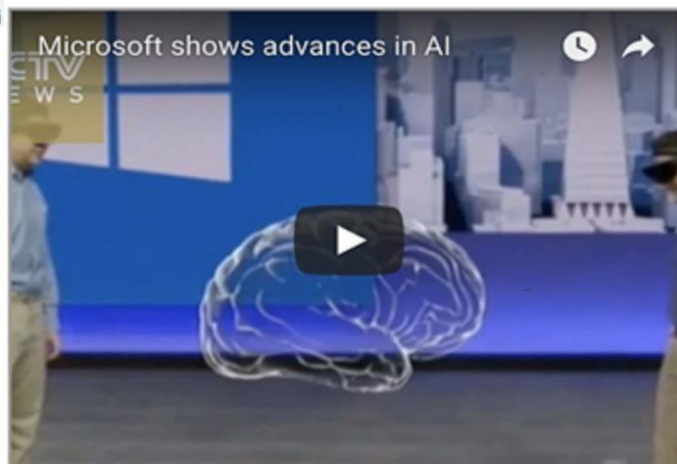
Comments(1)   Unlike 0 Like 1

Location Post:

Search Frame:

Employee Profile Page:

Features:

- View all his posts.
- View total number of likes, posts and friends.
- Option to comment on the post.
- Option to like or dislike the post.
- Option to delete the post.
- Option to search for other Users in the organization.
- Viewing the current location.
- Sharing the location.
- Posting to walls.
- Responding to the friend requests.
- Messaging colleagues.

Info Page:

Location Finder:

Post something to frame:

Post something!   ✕

This will appear on the user's profile page and also their newsfeed for your friends to see!

Got something to say?   Post

◉ Public ○ Private ○ Team

Friends View Page:

View Friend Requests:

Friend Requests

Anshul Garg sent you a friend request!

Accept   Ignore

Rahul Keswani sent you a friend request!

Accept   Ignore

Friend list

Jay Shah

User Setting:

- User can update his or her profile settings.
- User can update his password and his name.

Logout:

Selecting logout would kill the session and allow user to logout from Big Apple.

Additional Use Cases / Features

Send Messages to Users:

Video embedding
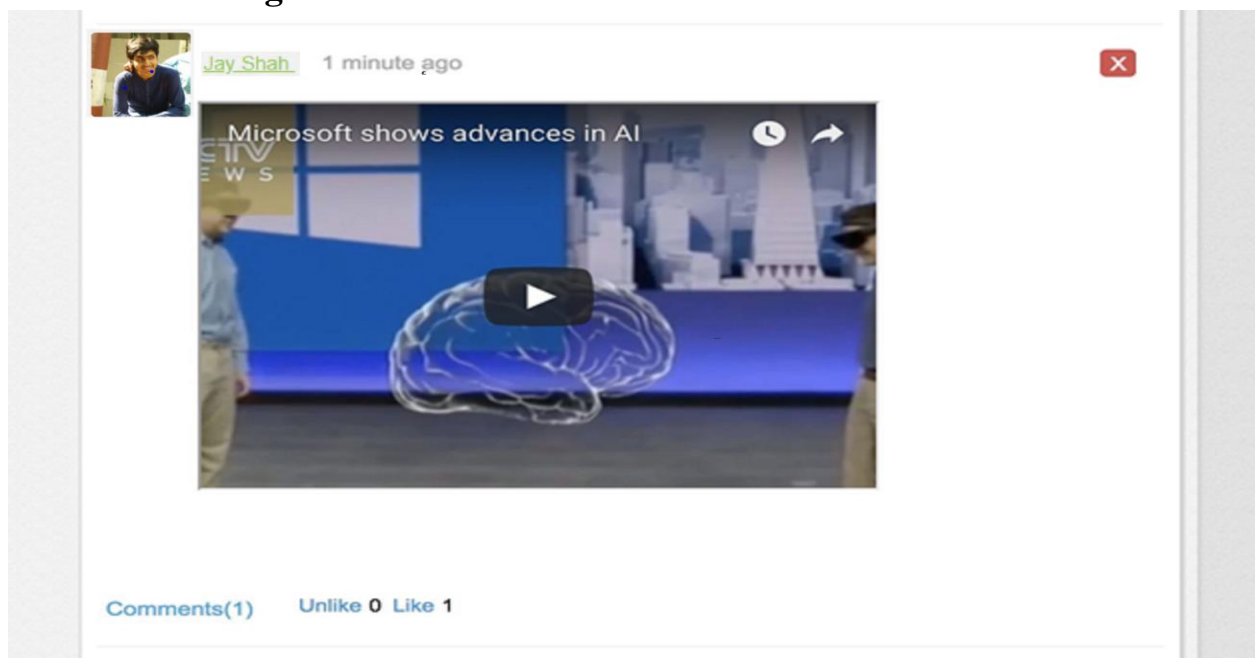
Schema Remodeling

Following schema redesigning attempts were made in the development phase of Big Apple.

- Add attribute **profile_name** in signin table to link between employee and registered_employee table.
- Add **deleted** column in location, likes, post, wall and multimedia table to keep a track of all the post and comments that have been deleted.

Relations after the changes:

Signin:

					ssn	password	profile_name
☐	🖉 Edit	⊞ Copy	⊖ Delete		378092902	password	ag6516
☐	🖉 Edit	⊞ Copy	⊖ Delete		407840577	password	akk198
☐	🖉 Edit	⊞ Copy	⊖ Delete		742347661	password	gss383
☐	🖉 Edit	⊞ Copy	⊖ Delete		742347663	password	jjs816
☐	🖉 Edit	⊞ Copy	⊖ Delete		940237837	password	ryk123
☐	🖉 Edit	⊞ Copy	⊖ Delete		379486342	password	sa4920

Wall:

post_id	profile_name	deleted	access_id
post_2	gss383	yes	P
post_3	jjs816	yes	P
post_4	gss383	no	P
post_5	gss383	no	P
post_6	ryk123	no	P
post_7	jjs816	yes	P
post_8	jjs816	yes	P
post_9	jjs816	yes	P
post_10	jjs816	no	P
post_11	jjs816	no	P

Multimedia:

		multimedia_id	post_id	multimedia_name	Multimedia_type	multimedia_content	access_id	deleted
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_10	post_1	Day one at Miami!	jpg	[BLOB - 55 B]	P	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_2	post_2	Florida image	jpg	[BLOB - 15 B]	P	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_4	post_3	Pizza	jpg	[BLOB - 15 B]	S	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_6	post_13	Hi	jpg	[BLOB - 46 B]	P	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_7	post_14	Thats me.	jpg	[BLOB - 47 B]	P	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_8	post_15	Hey its Anshul.	jpg	[BLOB - 49 B]	P	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	mul_9	post_16	I love this show	jpg	[BLOB - 89 B]	P	no

Likes:

		like_id	post_id	multimedia_id	comment_id	loc_id	viewer_name	like_time	deleted
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_1	post_16	NULL	NULL	NULL	ag6516	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_2	post_8	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_3	post_6	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_4	post_5	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_5	post_4	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_6	post_1	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_7	post_14	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no
☐	🖉 Edit ⫶ Copy ⊖ Delete	like_8	post_12	NULL	NULL	NULL	jjs816	2019-05-12 00:00:00	no

Future Implementation

Big Apple will continue to expand to incorporate additional features as:

- Real Time Chat application.
- Real Time Notification.
- News Trendz.
- Push Notification.

Technology Stack

Big Apple is developed using the following technologies.

- Frontend: HTML5, CSS, JavaScript, Jquery, Ajax.
- Middleware: PHP Backend: MySql.