

SW Engineering CSC648-848

Summer 2022

Milestone 3 V1

“PlayDate” Application — by Team 03 (the “Babysitters”)		
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07/19/2022	M3V1
07/19/2022	M2V2
07/19/2022	M1V2
07/07/2022	M2V1
06/21/2022	M1V1

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1. Data Definitions V3

1. **General users:** Can browse the homepage, view and search for public events.
 - 1.1. Look up the homepage and public events
 - 1.2. Search for public events
2. **Registered users:** A user shall be able to look up the website and search for public events. Once a user login the system, they shall be able to search for other users and their posted events. A user shall be able to leave comments or sign up for other users' events. They shall also be able to post, edit, delete their own event activities, join groups, and sign up for public user activities.
 - 2.1. Look up the homepage and public events: same as a general use
 - 2.2. Search for public events: same as a general use
 - 2.3. Login System
 - 2.3.1. **Account:** already had an account
 - 2.3.2. **Email/Username:** need a unique email/username for login
 - 2.3.3. **Password:** need a password to login
 - 2.4. Search for and sign up for **events**
 - 2.5. **Log out** the system
 - 2.6. Leave **comments** on events
 - 2.7. Create/Edit/Delete **events**
 - 2.8. My Events: There shall be a link “**My Events**” which links to a web page of all the user’s created and sign-upped events
3. **Group:** Group is where people of similar interests form a circle to create and attend events together.
 - 3.1. All groups consist of below information:
 - 3.1.1. **Name:** Group name
 - 3.1.2. **Group admin:** who created this group and can administer it.
4. **Group users:** Users who have joined a specific group and have more privilege than general users in terms of viewing and subscribing to group events which are private to the group.
 - 4.1. A group user is also a **registered user** and has all the attributes and privileges same as a registered user.
 - 4.2. A group user can comment and sign up for **group events** that are private to this group.
 - 4.3. **Sign out** the group
 - 4.4. Create/Edit/Delete **group events**

- 4.5. My Groups: There shall be a link “**My Groups**” which links to a web page of all the user’s joined groups
5. **Group Admin:** Administrator of a group, who is also the creator of the group and has the rights to delete inappropriate group events, to add users into the group, and remove group users who violate “PlayDate” terms of use.
 - 5.1. A group user is also a **registered user** and has all the attributes and privileges same as a registered user.
 - 5.2. A group admin can delete **group events** if they’re inappropriate
 - 5.3. A group admin can **remove group users** if they violate “PlayDate” terms of use
 - 5.4. A group admin can add registered users into the group
6. **Account:** general users can register the “PlayDate” system, and every user will have an account.
 - 6.1. Each account will contain a **profile**
 - 6.2. A profile contains basic information of a user including **name, username, DOB, address, and dependents info**
 - 6.3. An account can use **several roles**, like **registered user, admin, group user, and group admin**, to denote which user is related to this account
7. **Roles:** including **registered user, admin, group user, and group admin**. Every registered user has an account and every account has one or more roles.
8. **Support Staff:** are the ones with whom the users can connect incase of any issues with the application by choosing Help on web application. The issue can be classified as one of below:
 - 8.1. All support staff consist of below information:
 - 8.1.1. **Name:** staff name
 - 8.2. **Request assistance:** The users who need assistance with usability or onboarding can contact the support team. The request consists of:
 - 9.1.1. **User Full Name**
 - 9.1.2. **Description of Assistance**
 - 9.1.3. **Email:** User’s email id so that the support staff can contact the user.
 - 8.3. **Report users/groups:** Registered users can report other users or groups that do not follow community guidelines or are causing bad experiences. User will click on the report option on the user profile or group profile of the user/group that needs to be reported and provide a reason in the description box.
 - 8.4. **Report bugs:** Users can report any bugs with the application and the service team will contact the user and get it fixed. User needs to provide below details while reporting bug:
 - 8.4.1. **Description of Bug**
 - 8.4.2. **Email:** User’s email id so that the support staff can contact the user.
9. **Backend Admin:** Work on technical issues users have reported via support staff.
 - 9.1. All backend admins have the following information:

- 9.1.1. **Name:** Staff name
- 9.2. Backend admins will update background-checking when a user registers the “PlayDate” system. On successful verification, backend admins initiate the account activation. An admin is also a **registered user** and has all the attributes and privileges same as a registered user.
- 9.3. Backend admin can delete **events** if they’re inappropriate
- 9.4. Backend admin can **remove registered users** if they violate “PlayDate” terms of use
- 9.5. Admin shall have an **is_admin** attribute to denote the identification
- 10. **Events:** An event is a combination of date and place where a group of registered users can meet with their dependents such as children or pets. An event is created by a registered user and is open to only registered users on PlayDate. All events consist of below information:
 - 10.1. **Name:** Event name
 - 10.2. **Created by:** Event is created by which registered user
 - 10.3. **Address:** Venue of the event
 - 10.4. **Time and Date:** Details on when the event is scheduled to occur
- 11. **Public Events:** Upcoming public events are just seeders which are posted for general users to view and do a search. These public events are scrapped from other websites to give “PlayDate” general users an idea of what events will be happening around them and they can take their children or pets there. All public events consist of below information:
 - 11.1. **Name:** Event name
 - 11.2. **Address:** Venue of the event
 - 11.3. **Time and Date:** Details on when the event is scheduled to occur
- 12. **Group Event:** An event tied to a specific group. The group users of the group the event is attached to may register their attendance or *sign up*. While registration is open to the entire group, there is still an internal list of group users confirmed as group. A group event is an event, it has all the attributes same as an event
 - 12.1. **Name:** Event name
 - 12.2. **Created by:** Event is created by which registered user
 - 12.3. **Address:** Venue of the event
 - 12.4. **Time and Date:** Details on when the event is scheduled to occur
- 13. **Comment:** A piece of user-generated content attached to an event. A comment has all the below attributes
 - 13.1. **Created by:** who attached this comment.
 - 13.2. **Time and Date:** Details on when the comment is attached
- 14. **Dependents:** Children or pets that are under the preview of a user. A dependent has all the below attributes.
 - 14.1. **Name:** Name of dependent

- 14.2. **Age:** Age of dependent will be used in case of matching playdates of the same age.
- 14.3. **Interests:** These are likes based on which the registered users want to match dependents with playdates
- 15. **Survey:** A survey is generated by a group user to know about the group users' preferences on food or drinks. A survey can better help with a successful event. A survey has all the below attributes.
 - 15.1. **Topic:** topic of the survey
 - 15.2. **Generator:** who generated this survey
- 16. **Emergency Contact:** Contact details of two persons, who are known to the registered user.
 - 16.1. Contact name
 - 16.2. Contact number
- 17. **User Events:** A type of event created by a registered user, but not associated with a group.
 - 17.1. The user who created the event is the creator of that event and may alter the event as they see fit.
- 18. **Posts:** A selection of text that can be associated with a group or event for all associated users to see.
 - 18.1. Posts must include text, but may also include images
 - 18.2. Posts can be edited and deleted by the user who created them

2. Functional Requirements V3

Priority 1

1. General User

- 1.1 A general user shall be able to view public events.
- 1.2 A general user shall be able to search for public events.
- 1.3 A general user shall be able to register.
- 1.4 A general user shall be able to create one account.
- 1.5 A general user shall be able to become one registered user.
- 1.7 A general user shall be able to request assistance from the PlayDate support staff for onboarding.

2. Registered User

- 2.1 A registered user shall be able to log into their account.
- 2.2 A registered user shall have a profile.
- 2.3 A registered user shall be able to have a username.
- 2.4 A registered user shall be able to have an email address
- 2.6 A registered user shall be able to edit their Username in profile
- 2.7 A registered user shall be able to edit their Email in profile
- 2.9 A registered user shall be able to edit their Name in profile
- 2.11 A registered user shall be able to edit their Dependents' Name in profile
- 2.12 A registered user shall be able to edit their Dependents' Birth Date in profile
- 2.13 A registered user shall be able to edit their Dependents' Type in profile
- 2.14 A registered user shall be able to edit their Dependents' Interests in profile
- 2.17 A registered user shall be able to search for public events.
- 2.18 A registered user shall be able to view public events
- 2.19 A registered user shall be able to post on public events
- 2.21 A registered user shall be able to log out from the application.
- 2.22 A registered user shall have one or more dependents
- 2.23 A registered user shall be able to become a group user.
- 2.24 A registered user shall be able to create many groups.
- 2.25 A registered user shall be able to become a group admin
- 2.26 A registered user shall be able to search for groups based on search criteria of location.
- 2.27 A registered user shall be able to search for groups based on search criteria of interest.
- 2.28 A registered user shall be able to search for groups based on search criteria of group name.

- 2.29 A registered user shall be able to join many groups
- 2.30 A registered user shall be able to search for events from all groups they are a part of.
- 2.31 A registered user shall be able to join a group.
- 2.33 A registered user shall be able to browse groups
- 2.46 A registered user shall be able to request for technical assistance from support staff on product bugs
- 2.59 A registered user shall be able to edit their Birth Date in profile
- 2.60 A registered user shall be able to view public user events
- 2.61 A registered user shall be able to make their own user events public
- 2.62 A registered user shall be able to sign up for other users' events.
- 2.64 A registered user shall be able to cancel their sign up to an event

3. Group

- 3.1 A group shall have at least one group user.
- 3.2 A group shall have at least one group admin.
- 3.4 A group shall have 0 or more events
- 3.5 A group shall include the creator of the group

4. Group Users

- 4.1 A group user shall also be a registered user.
- 4.2 A group user shall be able to post on a group
- 4.3 A group user shall be able to edit their own post.
- 4.7 A group user shall be able to create group events.
- 4.8 A group user who creates a group event is the event's event admin
- 4.11 A group user shall be able to search for group events.
- 4.12 A group user shall be able to sign up for group events.
- 4.13 A group user shall be able to leave a group.
- 4.23 A group user shall be able to request for technical assistance from support staff on product bugs.

5. Group Admin

- 5.1 A group admin shall also be a registered user.
- 5.2 A group admin shall be able to administer at least one group
- 5.3 A group admin shall be able to add or remove many group members.
- 5.6 A group admin shall be able to delete group events
- 5.8 A group admin shall be able to invite a registered user to the group.

6. Account

- 6.1 An account shall be provided for each registered user
- 6.2 An account shall carry the profile of a user
- 6.3 An account shall associate with 1 to many roles.

7. Roles

7.1 A role shall be used by 0 or more accounts

7.2 A role shall allow the associated user to interact with the application

7.3 A role of 'registered user' shall allow the account all the functionality of a registered user.

7.4 A role of 'group admin' shall allot the account all the functionality of a group admin, but only for the group the account administrates

7.5 A role of 'support staff' shall allow the account to be emailed for support concerns and to have all of the abilities of the support staff

7.6 A role of 'backend admin' shall allow the account to have all the abilities of a backend admin

7.7 A role of 'group user' shall allow the account to have all the abilities of a group user

8. Support Staff

8.1 A support staff shall receive emails regarding user onboarding issues.

8.2 A support staff shall receive help requests from general users

8.3 A support staff shall receive emails regarding user technical issues.

8.4 A support staff shall receive emails from registered users

9. Backend Admin

9.9 A backend admin shall be able to access all the public content of events

10. Events

10.1 An event shall have a name

10.2 An event shall have a date and time

10.3 An event shall have an address

10.4 An event shall have a list of people currently RSVP'd

10.5 An event shall be edited by the event admin

10.6 An event shall set the event creator as the event admin

10.7 An event shall be either a public event, a group event, or a user event

11. Public Events

11.1 Public events can be searched for by general users

11.2 Public events can be searched for by registered users

11.3 Public events can be viewed by general users

11.4 Public events can be viewed by registered users

11.5 Public events can be posted on by registered users

12. Group Events

12.1 A group event shall immediately accept sign-ups from group users of that group

12.2 A group event can be edited by the event admin

12.3 A group event can be edited by the group admin

- 12.4 A group event can be created by any group user
- 12.5 A group event can be signed up for by group users of that group
- 12.6 A group event can be canceled by the group admin
- 12.7 A group event shall include a sign up by the event creator

13. Comment

- 13.1 A comment shall be created by a registered user
- 13.4 A comment shall include text
- 13.5 A comment shall include a datetime of when it was created
- 13.6 A comment shall be removed from the system if the post it was attached to is deleted

14. Dependents

- 14.1 A dependent shall have a name
- 14.2 A dependent shall have a birth date
- 14.3 A dependent shall have a type
- 14.4 A dependent shall have a list of interests
- 14.6 A dependent shall be managed by their associated registered user

15. Survey

No Priority 1 Functional Requirements for 15. Survey

16. Emergency Contacts

- 16.1 An emergency request shall be requested by any registered user.
- 16.3 An emergency request shall contain the registered user's event location and contact number

17. User Events

- 17.1 A user event shall have an event admin
- 17.7 A user event shall be able to be made public by the user who created it

18. Posts

- 18.1 A post shall be made on an event or group
- 18.2 A post shall contain text
- 18.5 A post on a group shall be created by a group user of the group

Priority 2

1. General User

1.6 A general user shall be able to upload proof of the parent of a kid or pet.

2. Registered User

2.5 A registered user shall have an address in their profile

2.8 A registered user shall be able to edit their Address in profile

2.10 A registered user shall be able to edit their Birth Date in profile

2.15 A registered user shall be able to edit their Dependents' schedule

2.20 A registered user shall be able to comment on public event posts

2.32 A registered user shall be able to search for users nearby an address

2.34 A registered user shall be able to create user events.

2.35 A registered user shall be able to send notification to a selected number of registered users via application.

2.36 A registered user shall be able to search for user events based on location.

2.39 A registered user shall be able to post on a user event

2.40 A registered user shall be able to comment on a user event post

2.41 A registered user shall be able to request emergency assistance via PlayDate application.

2.50 A registered user shall be able to report other users by contacting support staff

2.54 A registered user shall be able to view their list of RSVP'd events

2.57 A registered user shall be able to add events to their favorites

2.63 A registered user shall be able to comment on other users' posts.

2.65 A registered user shall be able to search for friends by username

2.66 A registered user shall be able to search for friends by name

2.67 A registered user shall be able to accept an invitation to join a group

2.68 A registered user shall be able to upload a profile photo.

2.69 A registered user shall be able to edit their own post

2.70 A registered user shall be able to filter event searches by dependent type

2.71 A registered user signed up for an event shall be able to view the event attendees

2.72 A registered user shall be able to search for users by location

2.73 A registered user shall be able to delete their comments

2.74 A registered user shall be able to accept event invitations

2.75 A registered user shall be able to add two emergency contacts.

2.76 A registered user shall be able to edit emergency contacts.

2.77 A registered user shall be able to remove themselves from the application

3. Group

3.3 A group shall have 0 or more comments

- 3.6 A group shall be able to be joined by request
- 3.7 A group shall be able to be joined by invite
- 3.8 A group shall contain no more than 50 group users

4. Group Users

- 4.4 A group user shall be able to delete their posts
- 4.5 A group user shall be able to edit a post on a group
- 4.6 A group user shall be able to delete a post on a group
- 4.9 A group user shall receive a notification when a group event is created.
- 4.16 A group user shall receive a notification when a group receives a Post
- 4.17 A group user shall be able to send group invites to registered users.
- 4.26 A group user shall be able to include images in their posts
- 4.27 A group user shall be able to contact the support staff to report other group users
- 4.29 A group user shall be able to comment on group posts
- 4.30 A group user shall be able to view past group events

5. Group Admin

- 5.4 A group admin shall be able to accept group join requests
- 5.5 A group admin shall be able to deny group join requests
- 5.9 A group admin shall be able to delete group posts

6. Account

No Priority 2 Functional Requirements for 6. Account

7. Roles

No Priority 2 Functional Requirements for 7. Roles

8. Support Staff

No Priority 2 Functional Requirements for 8. Support Staff

9. Backend Admin

- 9.4 A back end admin shall be able to remove users from a group

10. Events

No Priority 2 Functional Requirements for 10. Events

11. Public Events

No Priority 2 Functional Requirements for 11. Public Events

12. Group Events

- 12.8 A group event with no sign-ups shall be canceled

12.9 A group event shall be removed if there is no user signup apart from the creator of the event by the datetime of the event

13. Comment

13.2 A comment shall be edited by the user who created it

13.3 A comment shall be deleted by the user who created it

14. Dependents

14.5 Dependents shall have an availability schedule

15. Survey

No Priority 2 Functional Requirements for 15. Survey

16. Emergency Contacts

16.2 An emergency request shall be sent to the nearest police via 911 emergency helpline

17. User Events

17.2 A user event shall require that all sign ups be accepted or denied by the event admin.

17.3 A user event shall be searchable by all registered users

18. Posts

18.3 A post shall be able to contain images

18.4 A post shall be created by a registered user

18.6 A post on an event shall be created by any registered user with access to the event

18.7 A post shall be editable by the creator

Priority 3

1. General User

No Priority 3 Functional Requirements for 1. General User

2. Registered User

2.16 A registered user shall be able to send a referral link to a friend

2.37 A registered user shall be able to send out user event invites to a filtered user list.

2.38 A registered user shall be able to schedule a recurring event.

2.42 A registered user shall be able to create a survey for an event.

2.43 A registered user who is attending the event shall be able to respond to surveys corresponding to that event.

2.44 A registered user who created the survey shall be able to delete the survey.

- 2.45 A registered user who created the survey shall be able to modify it
- 2.47 A registered user shall be able to create 1 or more lists of friends.
- 2.48 A registered user shall be able to add friends to a list
- 2.49 A registered user shall be able to label the list of friends.
- 2.51 A registered user shall be able to set available events as 'Interested'
- 2.52 A registered user shall be able to filter to RSVP'd events
- 2.53 A registered user shall be able to set available events as 'Maybe'
- 2.55 A registered user shall be able to view their list of Interested events
- 2.56 A registered user shall be able to view their list of Maybe events
- 2.58 A registered user shall be able to view all of their favorite events.

3. Group

No Priority 3 Functional Requirements for 3. Group

4. Group Users

- 4.10 A group user who receives a notification regarding the creation of a group event shall be able to sign up for the event through the notification.
- 4.14 A group user who is part of a group shall be able to view a heatmap of the group schedule.
- 4.15 A group user shall be able to update their availability on group heatmap.
- 4.18 A group user shall be able to create a survey for an event of their group
- 4.19 A group user shall be able to post surveys(polls) for group events
- 4.20 A group user who is attending the event shall be able to respond to surveys
- 4.21 A group user who created the survey shall be able to delete the survey.
- 4.22 A group user who created the survey shall be able to modify it
- 4.24 A group user who created the event shall be able to create a post to collect reviews after its occurrence.
- 4.25 A group user who attended the event shall be able to give a rating out of 5 stars
- 4.28 A group user shall be able to reply to group posts with emojis.

5. Group Admin

- 5.7 A group admin shall be able to delete any surveys on events of their group

6. Account

No Priority 3 Functional Requirements for 6. Account

7. Roles

No Priority 3 Functional Requirements for 7. Roles

8. Support Staff

No Priority 3 Functional Requirements for 8. Support Staff

9. Backend Admin

9.1 A backend admin shall be able to access the user verification portal.

9.2 A backend admin shall be able to verify the general user's identity to confirm his registration.

9.3 A back end admin shall be able to delete a group

9.5 A back end admin shall be able to remove posts from a group

9.6 A back end admin shall be able to remove comments from a group

9.7 A backend admin shall be able to access all the group content of comments

9.8 A backend admin shall be able to access all the group content of events

9.10 A backend admin shall be able to remove registered user from the application.

10. Events

No Priority 3 Functional Requirements for 10. Events

11. Public Events

11.6 A public event shall be set as 'Interested' by a registered user

11.7 A public event shall be set as 'Maybe' by a registered user

11.8 A public event shall be favorited by zero or more registered users

12. Group Events

12.10 A group event shall contain the cumulative average of all the ratings as the rating of that event.

12.11 A group event shall be set as 'Interested' by a group user

12.12 A group event shall be set as 'Maybe' by a group user

12.13 A group event shall be favorited by zero or more registered users

13. Comment

No Priority 3 Functional Requirements for 13. Comments

14. Dependents

No Priority 3 Functional Requirements for 14. Dependents

15. Survey

15.1 A survey shall be attached to a group event

15.2 A survey shall be created by a group user

15.3 A survey shall be responded to by a group user signed up for the group event the survey is attached to

15.4 A survey shall be deleted by the group user that created the survey

15.5 A survey shall be deleted by the group admin

15.6 A survey shall consist of a set of choices and the number of times those choices have been chosen

16. Emergency Contacts

No Priority 3 Functional Requirements for 16. Emergency Request

17. User Events

17.4 A user event shall be set as 'Interested' by a registered user

17.5 A user event shall be set as 'Maybe' by a registered user

17.6 A user event shall be favorited by zero or more registered users

18. Posts

No Priority 3 Functional Requirements for 18. Posts

3. Wireframes Based on Mockups/Storyboards V2

1. Use Case 1: New user registration

PlayDate

Public Events


About


Search


city


Sign Up

Log In





**Public Events**
Tons of public events available for each month and become the upcoming public events. Take your children and enjoy to have fun!

**Events From Members**
Check out other members local activities, join their events, meet your neighbors, and have children and join their event!


**Groups**
Join the groups from your neighbors. Share your events and experiences with them. Make friends with children and join their event!

We Feeds Latest Events.
All events will be updated frequently to make sure you get the latest information. You can browse all public events. You can event comment and sign up for your other event events if you become a registered user!



**We Connecting Neighbors and Communities.**
You can add your neighbors as friends and join local groups from your community. Share experiences with your neighbors and make your community a bigger family.

We Care About Your Privacy.
We'll protect your and your family's data. Every registered user is verified and safe to you and your family.



PlayDate

Sign Up

First Name

Last Name

Email Address

Password

Re-enter Password

Gender

City & State

Sign Up

By continuing, you agree to PlayDate's Terms of Use and Privacy Policy.

Already a member? Log In

Terms of Use

Privacy Notice

Contact Us

Copyright © 2022 TheBabySitters. All rights reserved.

PlayDate

Events

Groups

Search


city


My Groups


My Events


About

Log In





**Public Events**
Tons of public events available for each month and become the upcoming public events. Take your children and enjoy to have fun!

**Events From Members**
Check out other members local activities, join their events, meet your neighbors, and have children and join their event!


**Groups**
Join the groups from your neighbors. Share your events and experiences with them. Make friends with children and join their event!

We Feeds Latest Events.
All events will be updated frequently to make sure you get the latest information. You can browse all public events. You can event comment and sign up for your other event events if you become a registered user!



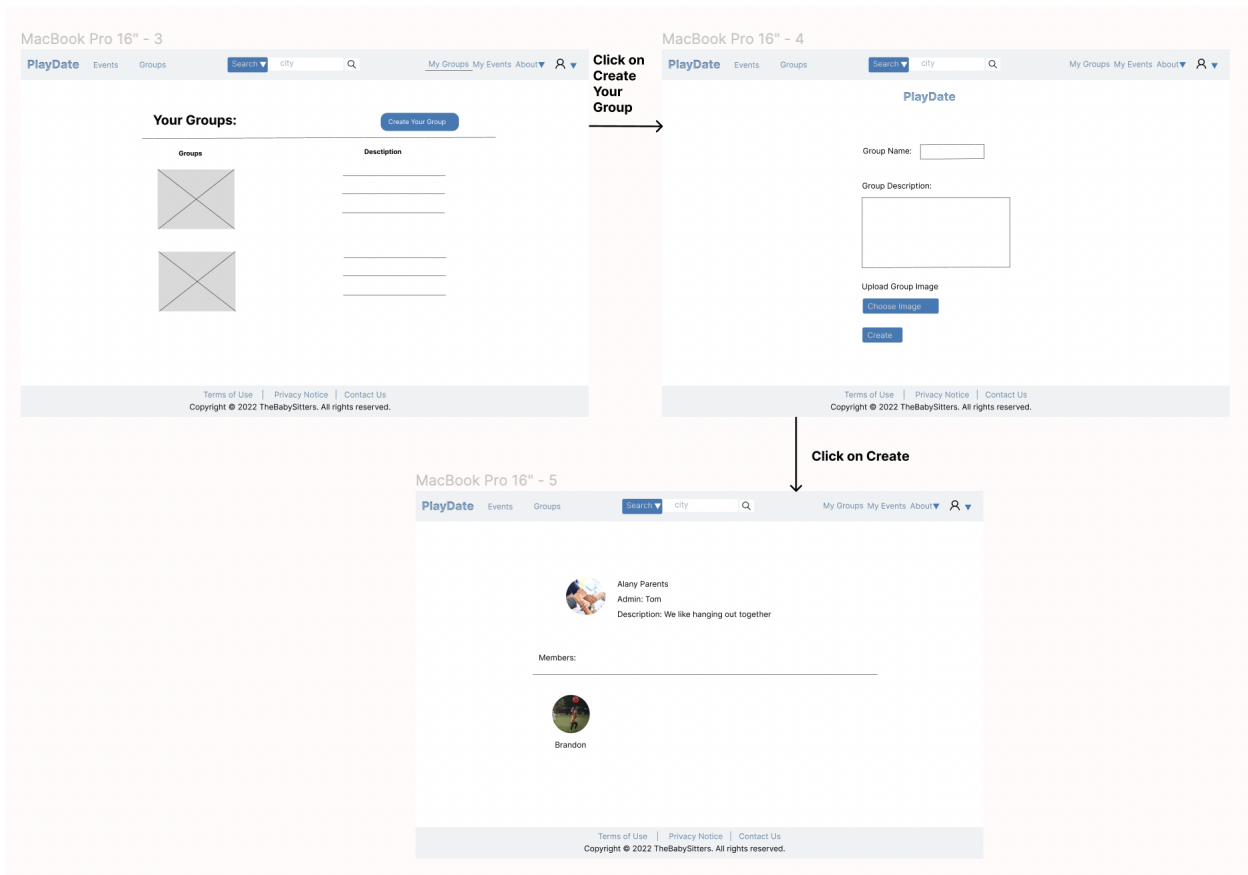
**We Connecting Neighbors and Communities.**
You can add your neighbors as friends and join local groups from your community. Share experiences with your neighbors and make your community a bigger family.

We Care About Your Privacy.
We'll protect your and your family's data. Every registered user is verified and safe to you and your family.

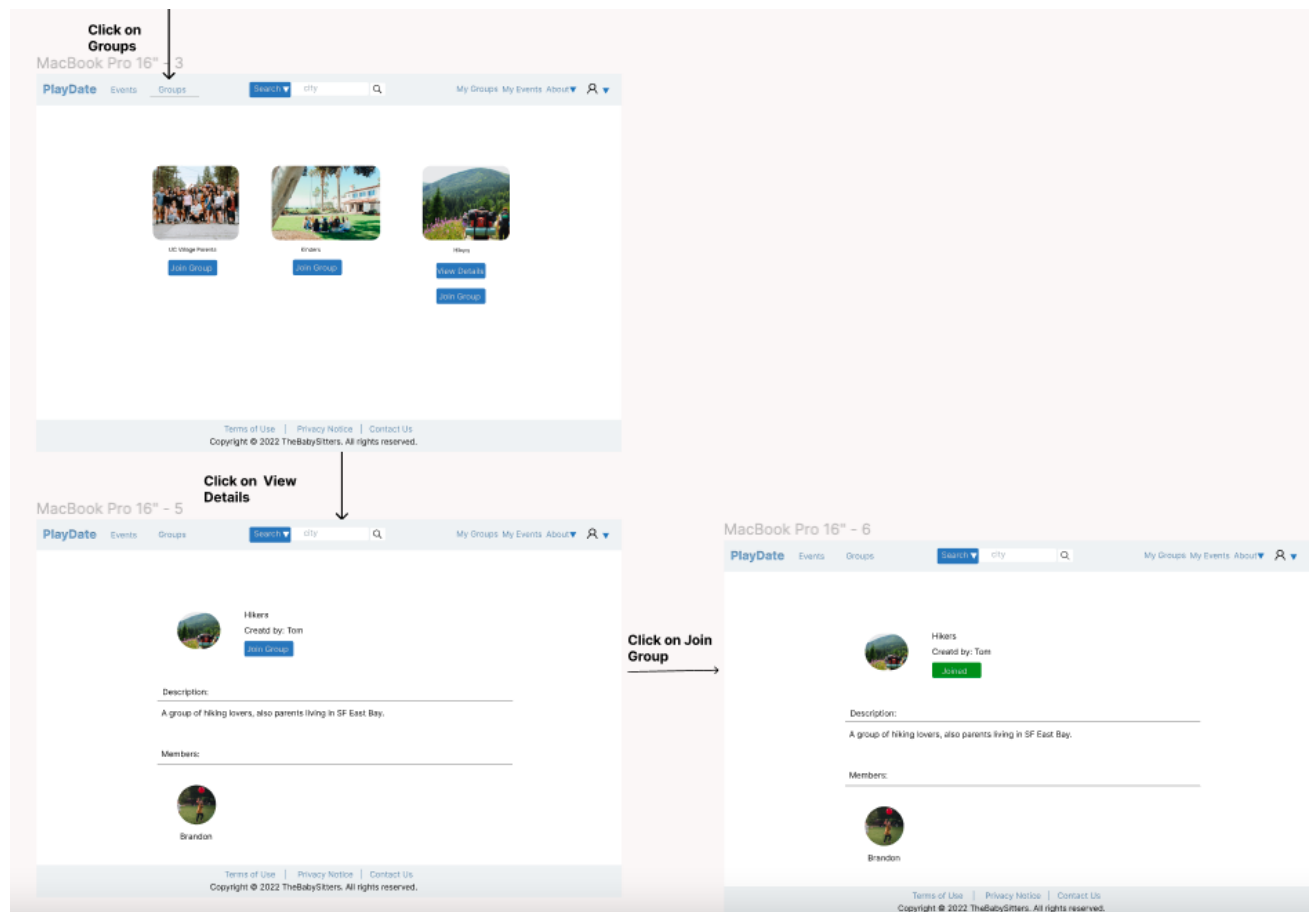


Submit Sign Up

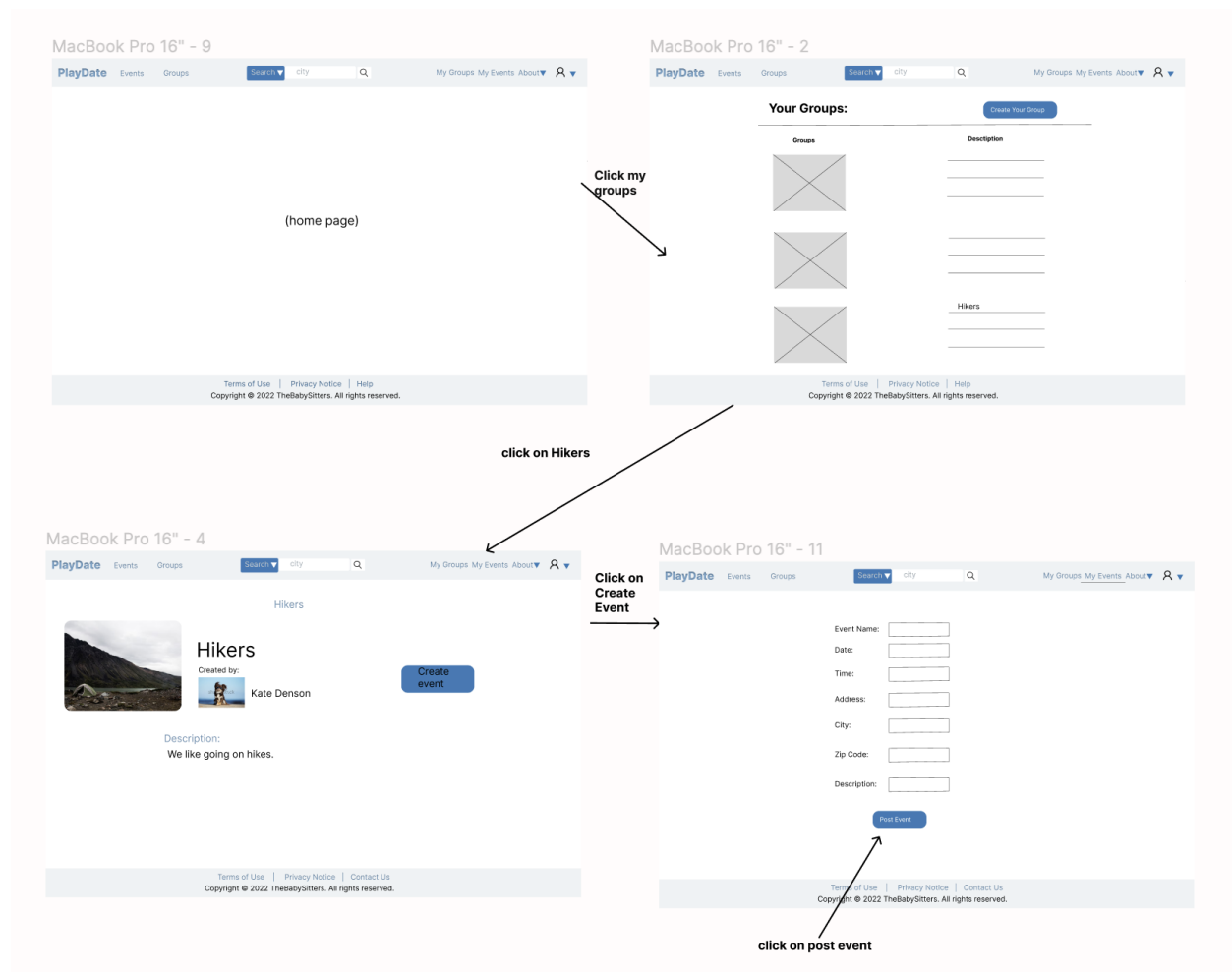
2. Use Case 2: Group Creation



3. Use Case 3: Joining group



4. Use Case 4: Creating Group Events





5. Use Case 5: Creating Events

MacBook Pro 16" - 3

Click on My Event

PlayDate Events Groups Search city My Groups My Events About

Your Events: Post Event

Events:	Description
	<input type="text"/> <input type="text"/> <input type="text"/>
	<input type="text"/> <input type="text"/> <input type="text"/>

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MacBook Pro 16" - 11

Click on Post Event

PlayDate Events Groups Search city My Groups My Events About

Event Name:

Date:

Time:

Address:

City:

Zip Code:

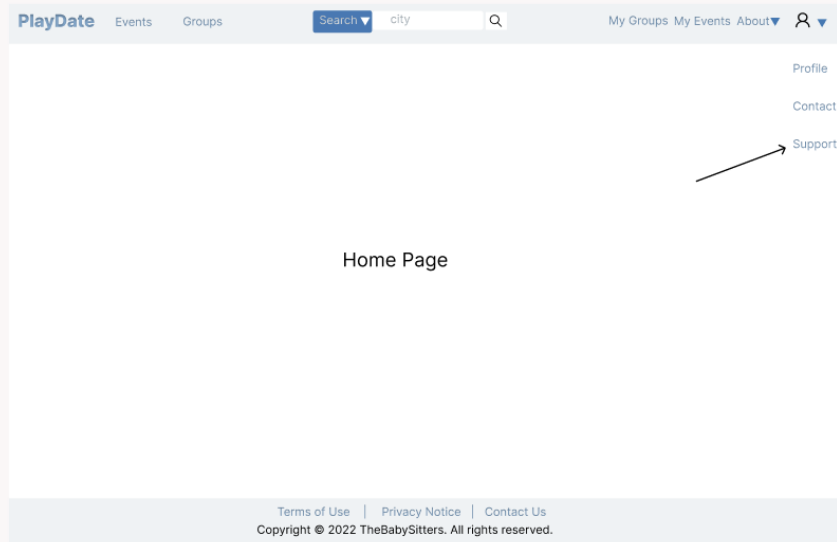
Description:

Post Event

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6. Use Case 8: Technical Support

MacBook Pro 16" - 3



Tom clicks on drop bar menu and clicks on support tab

**Clicking support will open
this page**

MacBook Pro 16" - 4

The screenshot shows the PlayDate website's support form. The header is identical to the previous screenshot. The form contains fields for 'Your Name', 'Your Email', 'Category' (with a dropdown menu showing 'Select a Category'), 'Subject', and 'Message'. A 'Send Message' button is at the bottom of the form. The footer is also identical to the previous screenshot.





Tom fills out the form and hit "Send Message" when done to contact support. Support Team will get this information and will respond to email ID

7. Use Case 12: View RSVP'd event

Click on MyEvents


PlayDate [Public Events](#) [Events](#) [Groups](#)

Search▼ city

[My Groups](#) [My Events](#) [About▼](#)     ▼

My Events

event



description


This is a pet friendly carnival event free for the public. Feel free to bring your fluffy babies, along with your baby babies. From 12pm to 8pm

RSVP'd to event

location

8777 Golf Links Rd, Oakland, CA 94605

post you event



CREATED BY YOU

Park near you has an animal park near the playground. Come on by for a day of fun this Saturday are 3pm.

RSVP'd to event

delete event

edit event

900 Buchanan St, Albany, CA 94706

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4. High level database architecture and organization V2

1. DB Organization

1.1. **Business Rules**

i. General User

A general user shall be able to become a registered user.

A general user shall be able to create only one account.

ii. Registered User

A registered user shall be a general user.

A registered user shall have only one account.

A registered user shall be able to create/delete/edit many events.

A registered user shall be able to sign up for many events.

A registered user shall be able to join many groups.

iii. Admin

An admin shall be a registered user.

An admin shall be able to delete many events.

An admin shall be able to remove many registered users.

vi. Group User

A group user shall be a registered user.

A registered user shall be able to create/delete/edit many group events.

A registered user shall be able to sign up for many group events.

v. Group Admin

A group admin shall be a registered user.

A group admin shall be able to delete many group events.

A group admin shall be able to remove many group users.

vi. Account

An account shall be created by one and only one general user.

An account shall use many roles.

vii. Roles

A role shall be used by 0 or more accounts.

viii. Group

A group shall have at least one group user.

A group shall have one group admin.

A group shall have many group events.

ix. Support Staff

A support staff shall be contacted by many registered users.

A support staff shall be able to contact at least one technical staff when a technical issue is reported.

x. Public Events

A public event shall be viewed by many users.

A public event shall be searched by many users.

xi. Events

An event shall be created by only one registered user.

An event shall be signed-up by 0 or more registered users.

xii. Group Events

A group event shall be created by only one group user.

A group event shall be signed-up by 0 or more group users.

xiii. Dependents

A dependent shall be had by only one registered user.

1.2. Entities

i. General User (Strong)

* general_id: key, numeric

* ip_address: alphanumeric

ii. Registered User (Weak)

* registered_user_id: strong key, numeric

* general_id: weak key, numeric

iii. Admin (Weak)

* admin_id: strong key, numeric

* registered_user_id: weak key, numeric

vi. Group User (Weak)

* group_user_id: strong key, numeric

* registered_user_id: weak key, numeric

v. Group Admin (Weak)

* group_admin_id: strong key, numeric

* registered_user_id: weak key, numeric

vi. Account (Weak)

- * account_id: key, numeric
- * user_id: key, numeric
- * role_id: key, numeric

vii. Roles (Strong)

- * roles_id: key, numeric
- * roles_name: alphabetical
- * description: alphabetical

viii. Group (Weak)

- * group_id: strong key, numeric
- * group_admin_id: weak key, numeric
- * group_name: alphanumeric

ix. Support Staff (Strong)

- * staff_id: key, numeric
- * staff_name: alphanumeric
- * email: key, alphanumeric

x. Public Events (Strong)

- * event_id: strong key, numeric
- * content: alphanumeric
- * address: composite, street, city, state, zip code
- * datetime: datetime

xi. Events (Weak)

- * event_id: strong key, numeric
- * user_id: weak key, numeric
- * content: alphanumeric
- * datetime: datetime

xii. Group Events (Weak)

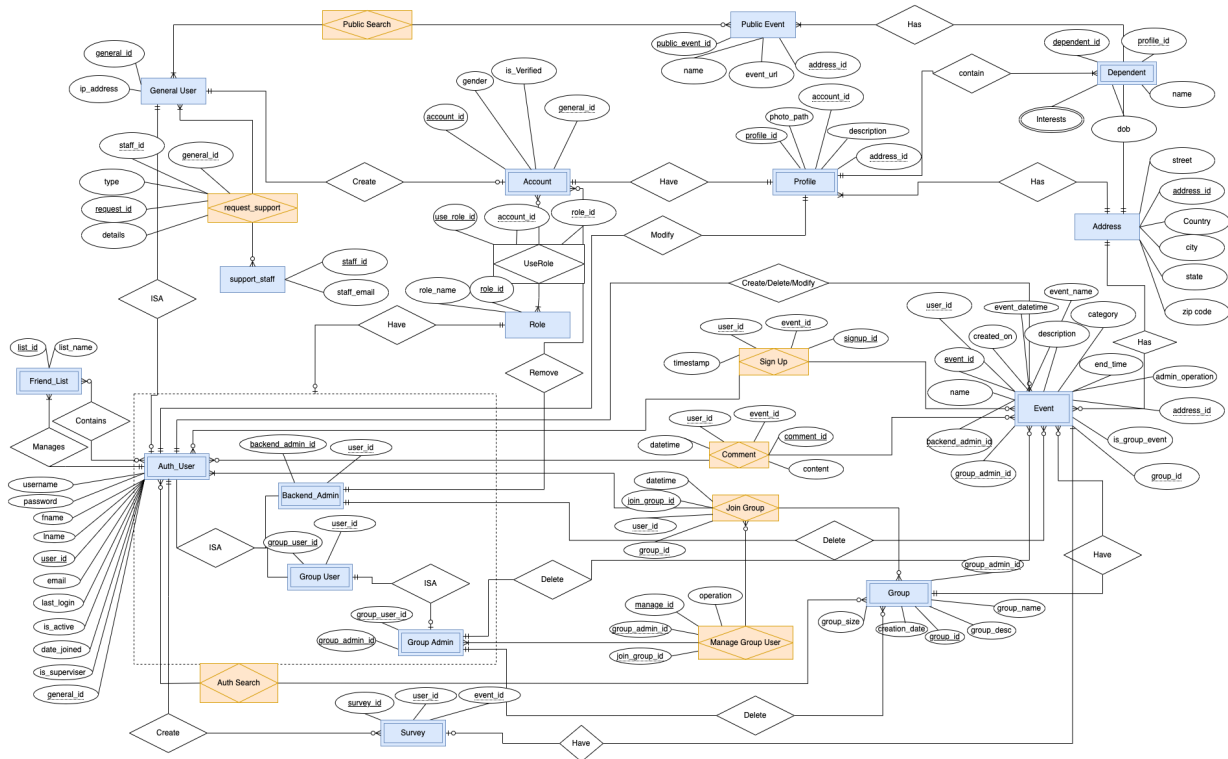
- * group_event_id: strong key, numeric
- * group_id: weak key, numeric
- * group_user_id: weak key, numeric
- * content: alphanumeric
- * datetime: datetime

xiii. Dependents (Weak)

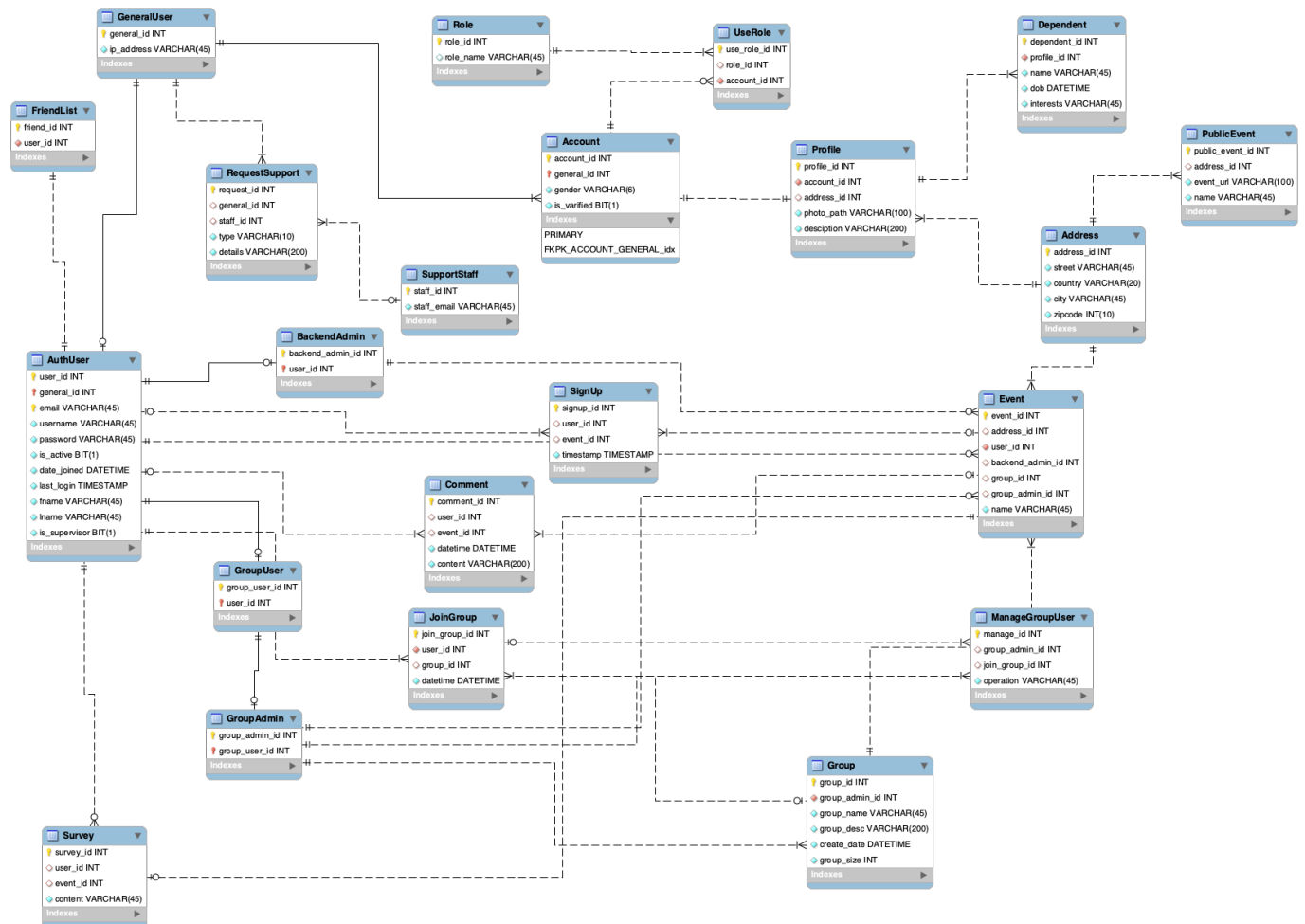
- * dependent_id: strong key, numeric
- * profile_id: weak key, numeric

- * interest: alphanumeric, composite
- * dob: date
- * name: alphanumeric, composite, first name, last name

1.3. ERD



1.4. Database Model (EER)



1.5. DBMS

We used MySQL Workbench to build our database model and generated our database generation script with forward engineering, so we directly used MySQL to generate our database model.

2. Media Storage

Our images and contexts will be stored in file systems.

3. Search/Filter architecture

3.1 Search Algorithm:

The search algorithm will consist of user input into the search bar on UI. The user may input event keywords, like locations and names. After parsing and confirming validity of the keyword, we use Case-insensitive containment test (`icontains`) from Django QuerySet API. `icontains` is equivalent to SQL LIKE statement. `icontains` looks for that

keyword in the form of LIKE %keyword%. After the query set is built using icontain, it will run the query on the MySQL database to fetch results.

Steps:

- A. User will enter a keyword example 'Palo' in the search space.
- B. The keyword shall be used to build the QuerySet, where this keyword will be checked for it's presence in country, state, city and street from the address table.

```
lookups= Q(address__city__icontains=keyword) |  
Q(address__zipcode__icontains=keyword) |  
Q(address__country__icontains=keyword) |  
Q(address__street__icontains=keyword)
```

- C. This queryset will perform a lookup on the mySQL database and return results from public events that map to the address table via foreign key of address_id.

```
results= Publicevent.objects.filter(lookups)
```

- D. The result from the above query shall be used to render the search results of the user.

3.2 Filter categories:

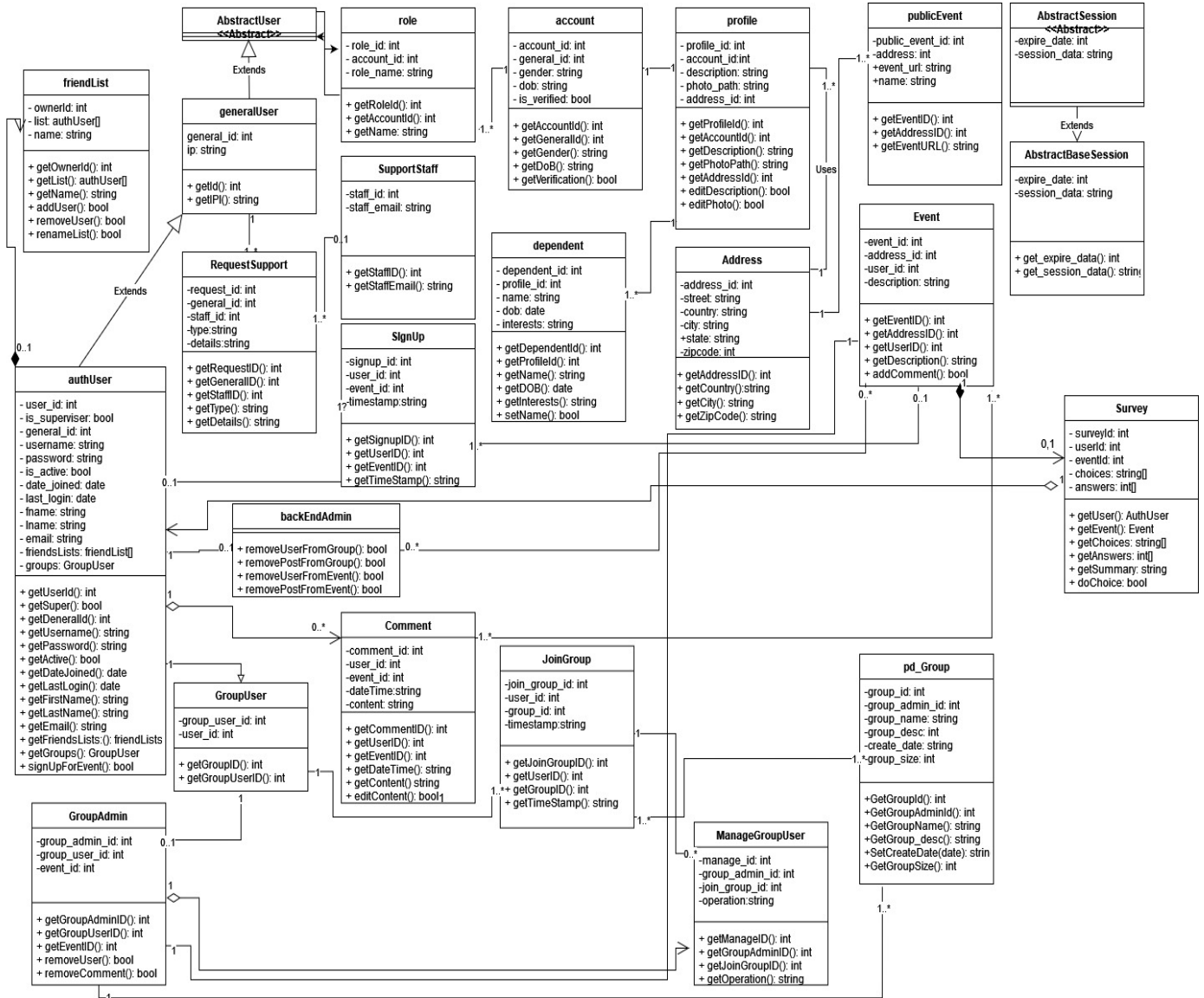
The search can be further filtered for various categories, using the drop down menu which will append to query sets generated in the search algorithm.

The results from step C can be further filtered if the user selects the filter option. Here we again use the icontain to match the category of the filter.

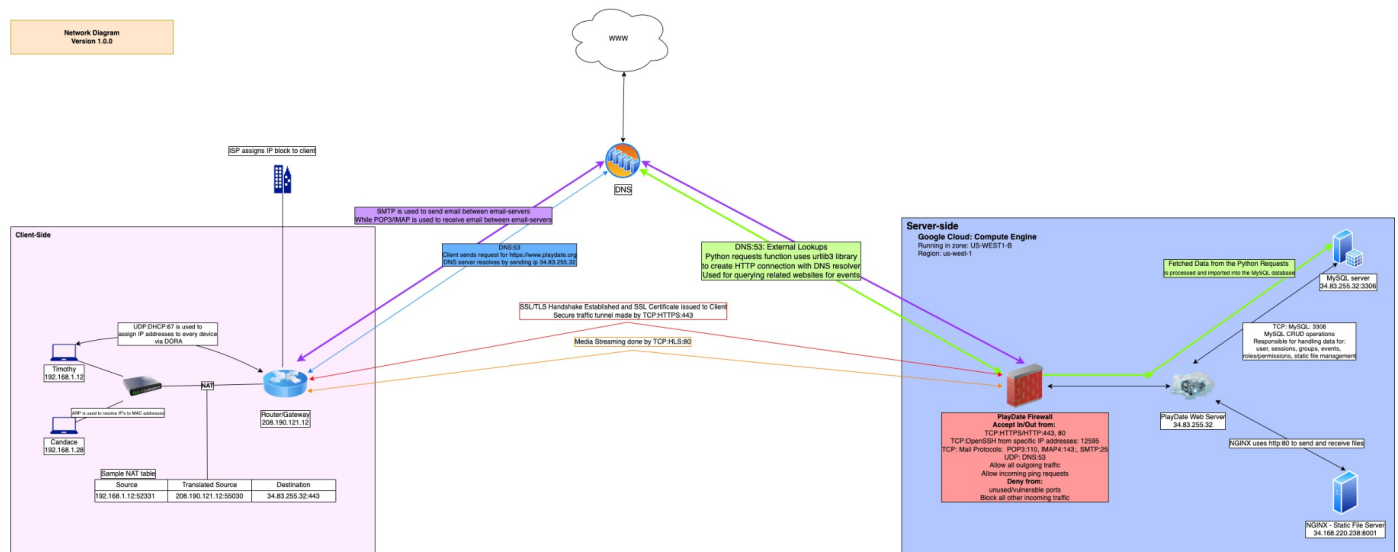
```
results= Publicevent.objects.filter(lookups).filter(Q(category__icontains = 'kids'))
```

5. High Level Diagrams V2

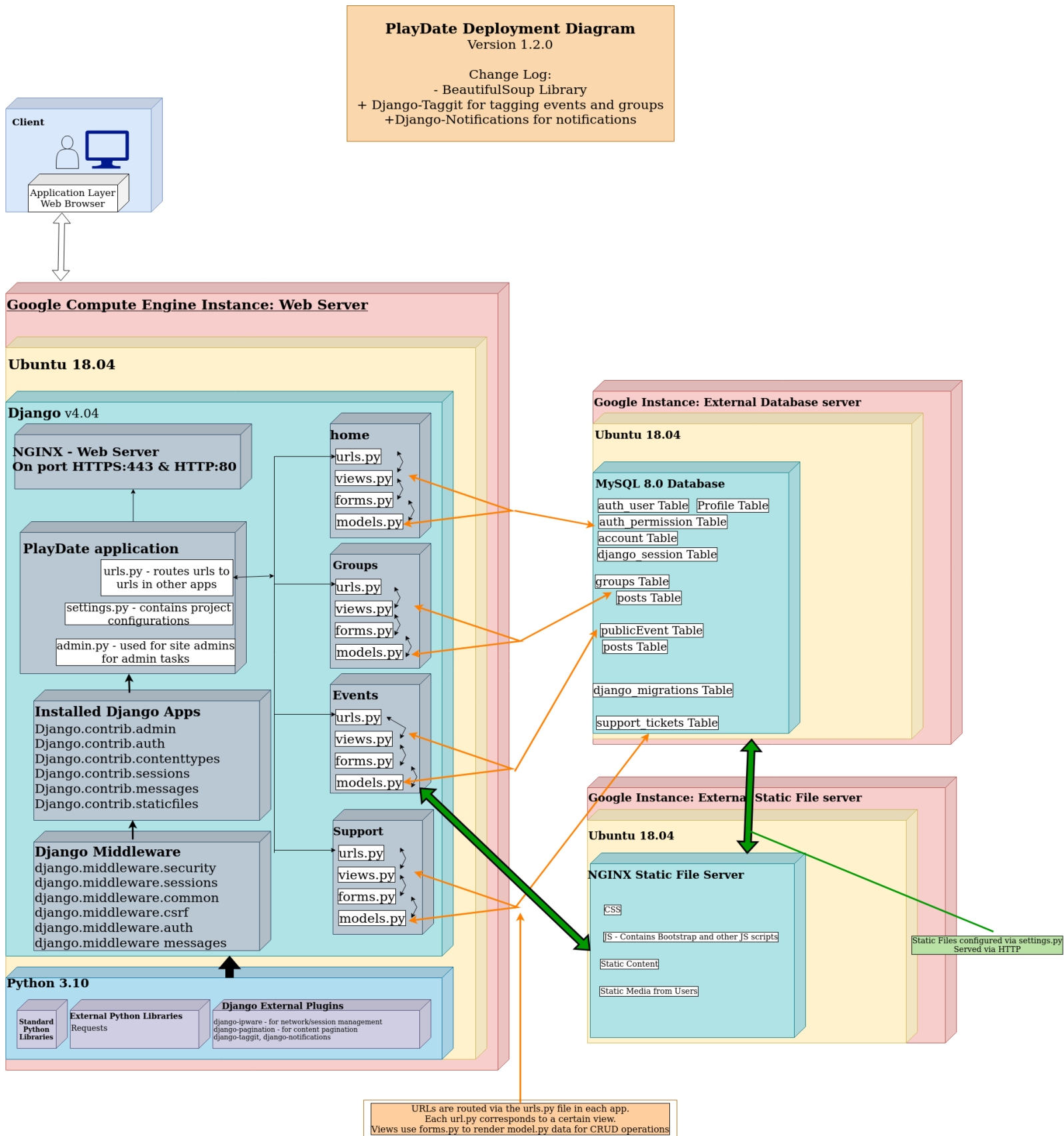
1. UML Diagram



2. Network Diagram



3. Deployment Diagram



6. List of Contributions

Name	Role	Contribution
Soujanya Ravindra Nayak	Team Lead Document Contributor Backend Team	<ul style="list-style-type: none"> Organized meetings and divided tasks among team and followed up on the tasks Provided feedback on UI to improve them Implemented modifications to UI on home navbar and search Refined the functional requirements based on feedback from M1 & M2 and applied it to M3. Assisted frontend team with their git issues.
Margaret De La Torre	Front-end lead Document Contributor	<ul style="list-style-type: none"> Helped brainstorm ideas implementation of UI design Designed wire diagrams Implemented UI of Group pages Followed up with the front end team on implementations.
Martin Salvatierra	Front-end Document Contributor	<ul style="list-style-type: none"> Helped brainstorm ideas implementation of UI design Designed wire diagrams Implemented UI of User Profile page, Help Page, MyGroups Page, group search. Recorded and shared meeting videos. Noted to-do's in frontend meetings
Andy Cho	Back-end lead Document Contributor	<ul style="list-style-type: none"> Provided feedback on UI Implemented modifications to UI for search Implemented backend of events and profile Deployed the code to server Updated deployment diagram
Qin Geng	Front-end Document Contributor	<ul style="list-style-type: none"> Helped brainstorm ideas implementation of UI design Designed wire diagrams Implemented Home page, public events, my events Noted to-do's in frontend meeting
William Plachno	Git Master Backend Team Document	<ul style="list-style-type: none"> Refined the functional requirements based on feedback from M1 & M2 and applied it to M3.

	Contributor	<ul style="list-style-type: none"> ● Provided feedback on UI ● Implemented modifications to Contact Support ● Updated UML diagram
Victor	Front-end Document Contributor	<ul style="list-style-type: none"> ● Helped brainstorm ideas implementation of UI design ● Designed wire diagrams ● Implemented UI of Privacy & Terms of Use ● Implemented UI of Create event