PlanIt System Requirements

Color Key for Priority:
MVP
Priority level 1 following MVP (high)
Priority level 2 following MVP (med)
Priority level 3 following MVP (low)

1. Account/Personalization

    1.1 The user can create an account

        1.1.1 Sign up with an email address and password

    1.2 The user can login to an account with an email address and password

    1.3 The user can log out

    1.4 User can sign up through Google account instead of making an account through PlanIt

    1.5 User can sign up with a phone number

        1.5.1 A code/link will be sent to their phone number for verification

    1.6 User can reset password by providing email

2. Events and Reminders:

    2.1 Ability to create events (click somewhere to bring up event creation)

        2.1.1 Set a date, time, title, duration, and description*

    2.2 Ability to edit events (click somewhere to bring up edit mode)*

    2.3 Connect events to user's calendar when created

        2.3.1 Can specify a calendar category with which the event is associated

        2.3.2 Can search for a specific category in a search bar

        2.3.3 Event creation interface will remember which category you last chose and default it for the next event creation (so users won't necessarily have to change it every time).

    2.4 Toggle whether the event has Reminders. Reminders will indicate the occurrence of an event in the relative future with a noise and a message.

        2.4.1 By default, a Reminder would occur (x) minutes before the start time of the event (x = 10?)

        2.4.2 Additional reminder notifications can be set up

            2.4.2.1 specify sound

            2.4.2.2 specify time (relative to occurrence of event? E.g. 30 minutes before...)

        2.4.3 If a user links their phone number, maybe automated texts can be sent as reminders? (standard phone rates apply, etc. etc.)

    2.5 Set recurrences (e.g. daily, weekly, monthly, custom)

2.6 Delete events
      2.6.1 Confirm with the user (Are you sure? y/n)
2.7 Set event's importance (see 3.4)
      2.7.1 Tier system (number of tiers?)
      2.7.2 Each event's importance will be displayed graphically on the calendar view (different shade of associated category's color, framed differently, glow effect?)

*2.1.1, 2.2: How do we make this efficient? Maybe some kind of drag and drop system? Maybe give the user multiple methods or places to engage in creating and editing events?

3. Calendar:
3.1 Create categories for the calendar
      3.1.1 All of the created categories will show up as check-boxes (or some other interactable, view-toggling button), with their category names.
            3.1.1.1 Ability to toggle view for any category (by clicking the check-box)
            3.1.1.2 Filter/search for user's specific categories for convenience
      3.1.2 Set category name
      3.1.3 Ability to toggle all categories on or off
      3.1.4 Ability specify a category's color
      3.1.5 Calendar comes with one undeletable category: General. All uncategorized events fit into this category.
3.2 Delete categories (and all associated events) from the calendar
      3.2.1 Confirm with the user (Are you sure? y/n)
      3.2.2 Double-confirm with the user if the collection of events to be deleted is at least (x), (x = 3?)
3.3 Contains all of user's events (see 2.3)
      3.3.1 Toggling specific category checkboxes (see 3.1.1) will hide/show each event associated with the category (see 2.3.1)
3.4 Daily, Weekly, Monthly, or Annual views
      3.4.1 Daily view will show all events listed for a single day
      3.4.2 Weekly view will show as many events for each day as will fit respective to window size.
      3.4.3 Monthly view will show small blocks for each day like a traditional calendar.
            3.4.3.1 All day blocks included in a monthly view will include the day and date, along with info for a few important events (see

2.7), or otherwise earliest events (if any) if there is room to show it respective to window size.

3.4.3.2 Users can click on any individual day block to expand it and be transferred to Daily view (see 3.4.1).

3.4.4 Yearly view will show 12 slots for months.

3.4.4.1 All month blocks included in a yearly view will include the name of the month, the number of the month, and any small info for a few important events (see 2.7) for that month, if there is room to show it respective to window size.

3.4.4.2 Users can click on any individual month block to expand it and be transferred to Monthly view (see 3.4.3).

3.5 Automatically Import National Holidays into Calendar

4. Checklists:

4.1 Checklist view: Checklists should be viewable separate from the calendar. Somewhere, maybe on the bottom region of the UI, we include a page flipper that can flip between the user's calendar and the user's collection of checklists.

4.2 Ability to create checklists

4.2.1 Set a title

4.2.2 Associate a checklist with a specific calendar category (see 4.3) or otherwise categorize it under 'General'

4.3 Ability to filter for specific checklists based on category, or search for specific checklists based on title

4.4 Ability to write items into a checklist

4.4.1 Ability to tab-in

4.4.2 Set item name

4.5 Ability to spawn events from any checklist item to the user's calendar

4.5.1 Events would be created like normal but appear in the calendar with some reference to the checklist. On the checklist side, the item would have a reference to all associated events.

4.5.2 Event is automatically color-coded according to the checklist's associated calendar category, or if no associated category, is colored by the calendar's General category (see 3.1.5)

4.6 Set checklist item's importance

4.6.1 Running idea: Click something to activate a Prioritization Mode, where UI shifts to bring up differently tiered boxes. From here, the user can link any checklist item(s) (click and drag?) with a certain tier of importance. Once finished, UI goes back to normal, and each tiered item now has a graphical element to display this (e.g. glow, frame, exclamation point, stars).

4.7 Ability to mark items in checklist as completed

5. Friends

5.1 Ability to use friends interface, which would show friends list as well as a button to search for/add friends

    5.1.1 ability to add friends

        5.1.1.1 ability to send and receive friend requests.

    5.1.2 ability to send queries (see 6.1)

5.2 Basic friend information

    5.2.1 Name

    5.2.2 Online/offline/do not disturb

5.3 Friends can be sent event queries

5.4 Ability to designate True Friends which would be able to share additional information:

    5.4.1 Status - if a user is currently in the middle of an event, this can be broadcasted optionally (i.e. can turn on/off)

    5.4.2 Location - a user can optionally (i.e. can turn on/off) share location information with true friends

        5.4.2.1 Maybe true friends can send individual location requests instead of constantly having to worry about sharing/broadcasting that information

5.5 Ability to share / invite to app

5.6 Chat functionality (personal messaging)

6. Queries (requires 5's interface to work, but a big enough concept to be its own number):

6.1 Like creating a normal event (see 2.1), however this is sent to another user for review. Once the other user reviews the query, they can accept or reject it, where accepting will add the event to both users' calendars, and rejecting will notify the original sender of the rejection.

    6.1.1 sending capability likely limited to just friends (see 5).

    6.1.2 users will have to individually specify the event's associated calendar category (see 3.1)

6.2 Query interface will likely be located somewhere inside the friends interface, as it is a social feature (see 5.1, 5.1.2)

7. Groups:

7.1 Ability to create / join groups

    7.1.1 Add from friends list (see 5) or search from all user accounts

7.2 Ability to set administrators (see 7.4.2, 7.5, 7.7 for admin privileges)

7.3 Groups have a collection of users joined under a single calendar (unique from individual users' personal calendars).

7.4 Group Calendar

7.4.1 Group events can now be associated with a subset of the group's users, or with all (i.e. everyone), or as optional for all (i.e. anyone). (e.g. house dinner -> anyone, grocery shopping -> [Paul, Tracy, Ronald])

7.4.2 Administrators have the ability to add/delete calendar categories (see 3.1, 3.2)

7.5 Group chat functionality

7.6 Administrators have the ability to add/remove users from the group

7.7 Groups can receive queries from administrators (see 6)

7.7.1 Group queries will be handled differently than friend queries. All acceptances and rejections of the query are held. Whenever he/she wants, the administrator can review the status of the query (i.e. how many people have accepted/rejected), and if enough people have accepted the query, the administrator can activate the query to the group calendar, or rejected otherwise.

7.7.2 The subset of group members who accept the query will, when the query is activated, be associated with the new group event (as described in 7.4.1)

8. Other

8.1 Do no disturb mode for notifications

8.2 Tutorials

8.2.1 Describe for the user how to interact with tools for creating events/adding to calendar, as well as creating checklists/adding items.

8.2.2 Describe for the user how to add friends, create groups, send event queries

8.3 Hosting a website, URL, database