

15-437 Team 26 Project Specification

Kappa Sigma Delta-Alpha Web Application

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ABSTRACT

This document clarifies and precisely defines the functionality of our web-application final project, as well as define the milestones for feature completion.

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1. Document Revisions

Table 1: Document History

Data	Revision History	Revision Class	Comments
03/20/2015	1.0.0	Major	Initial document.

2. Project Background

The Kappa Sigma Delta-Alpha web-application will serve as a portal for the fraternity to communicate and operate. This web-application serves will give its users the ability to see each other's contact information, assign/receive tasks, fine/receive fines, post/view the chapter forum, and view/edit the chapter Google calendar.

The current fraternity website does not allow for these functionalities and is outdated.

3. Complete Product Backlog

The items in the list below, and their associated descriptions, serve as a complete list of all functionality that we will add to our web-application.

2.1. Registration Functionality

- Registration via email confirmation – Registering users must provide an email address when registering. Next, the site admin will receive an email requesting their approval for the new user. Once this approval is made, the new user will be sent an email alerting them that their account is now activated and that they may login .

2.2 Communications Functionality

- Google Calendar viewing/editing – The fraternity utilizes Google calendar for event sharing and notifications. As such, this page on the web-application will allow users to view/edit the fraternity-wide Google calendar. Only users who have permissions to view/edit the calendar according the calendar permissions specified on Google will have access to this feature.

- Forum – This page will allow users to create new posts and comment on existing posts. Site admins will be able to moderate conversations by deleting posts and/or comments.
- Document Repository – We will allow users to upload and view documents. These documents will be stored on S3. These documents will include Chapter Bylaws, Standing Rules, Cleaning Guides, etc.
- Fines – Below are the features that fines encompass.
 - Users with “fining power” (Finer) will be allowed to fine members of the fraternity (Finee).
 - Each fine will contain a comment specifying the reasoning behind the fine.
 - Finees will have the ability to complete their fine through Venmo. By clicking on a link, a new window will be opened, asking the user to authenticate to their Venmo account. Then a Venmo payment between the user that was fined and the Chapter Treasurer will be created. The user who was fined will be required to complete the charge.
 - The fine can be marked complete by site admins or finer.

2.3 Task Functionality

- Worksession Assignment Script – Each week there will be a script that runs to assign brothers their weekly cleaning sessions.
- Waitsession Assignment Script – Each week there will be a script that runs to assign brother their daily waiter sessions.

2.4 Deployment Functionality

- Heroku Deployment – The web-application will be deployed on heroku. It won't be in the dev environment. Instead, it will be in a production environment.

4. Sprint #1 Product Backlog

The items in the list below serve as a complete list of all functionality that we will add to our web-application for Sprint #1. Their descriptions can be found in Section 3.

- Registration via email confirmation
- Google calendar viewing/editing
- Forum

The product owner for Sprint #1 will be Jake Stephens <jpstephe>.

5. Sprint #2 Product Backlog

The items in the list below serve as a complete list of all the functionality that we will add to our web-application for Sprint #2. Their descriptions can be found in Section 3.

- Fines
- Document Repository
- Worksession Assignment Script
- Waitsession Assignment Script

The product owner for Sprint #2 will be Rishi Ved <rnved>.

6. Post Sprint Product Backlog

The items in the list below serve as a complete list of all the functionality that we will add to our web-application post Sprint #2 and prior to the Final Demo. Their descriptions can be found in Section 3.

- Heroku Deployment

The product owner for Post Sprint #2 items will be Jake Stephens <jpstephe>.

7. Data Models

The complete implementation of the data models used by our application can be found at [team26/ksda/kapsig/ksda/models.py](https://github.com/team26/ksda/kapsig/ksda/models.py).

8. UI Mockups

Below is a complete set of HTML mockups for all non-trivial views within the application.

Table 2: Update Profile Template

[KSDA](#) [Profile](#) [Worksessions](#) [Waitsessions](#) [Finances](#) [Forum](#) [Documents](#) [Brother Roll](#) [EC Page](#) [Log Out](#)

User: Rishi Ved (rved)

Update Profile

Email:

Phone Number:

Free for Waitsession on Monday: ☒

Free for Waitsession on Tuesday: ☒

Free for Waitsession on Wednesday: ☒

Free for Waitsession on Thursday: ☒

Free for Waitsession on Friday: ☒

Free for Worksession this Weekend: ☒

Update Profile (EC Access Only)

Order:

Active: ☒

Pledge: ☐

Change Password

New Password:

Confirm new Password:

In the update profile page users are able to make changes to their email address, their phone number, and their password. Additionally, users can set their waitsession availability which is used to set which days of the week they are available to do a waitsession. They also set their availability to do a work session for the upcoming weekend.

On this page certain super users, or EC members, are able to make additional changes to a given user. The EC member can change that users order, which is when a user initiated, as well as setting them as an active/inactive brother or as a pledge.

Table 3: Worksession Template

[KSDA](#)
[Profile](#)
[Worksessions](#)
[Waitsessions](#)
[Finances](#)
[Forum](#)
[Documents](#)
[Brother Roll](#)
[EC Page](#)
[Log Out](#)

Work Sessions 2015-03-21 to 2015-03-22

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Saturday

No assigned worksession

Sunday

Delete
Make Complete

[Mar 22] : Rishi Ved -- 1st Floor BR

Add Work Session

Date:

x

Brother Assigned:

Task Name:

1st Floor BR

Create New Worksession

Add Work Unit

Change in Units:

Brother Assigned:

Create New Workunit

Add Work Session Task

New Task Name:

Create New Worksession Task

Active Brother Roll

Order	Name	Workunits	Free This Weekend
0	Rishi Ved	0	True
0	Matt Mercedes	0	True
0	Jake Stephens	0	True
0	Jake Stephens	0	True
0	Jake Stephens	0	True
0	Rishi Ved	0	True

On the worksession page a normal user can view the assigned worksessions for the coming weekend as well as the list of brothers and the number of units (or completed worksessions) and if they are available for this weekend.

A super user, in this case either an EC member or the housing chair(the person in charge of worksessions and waitsessions), can assign a new worksession to a given user. The super user would choose which date, the brother to be assigned, the specific worksession for them as well. Additionally, the super user can add units to any user and also create new additional tasks that may need to get done, for example cleaning up a spill or something.

Every week depending on number of units and availabilty all the worksessions will be assigned to specific brothers.

Table 4: Waitsession Template

[KSDA](#)
[Profile](#)
[Worksessions](#)
[Waitsessions](#)
[Finances](#)
[Forum](#)
[Documents](#)
[Brother Roll](#)
[EC Page](#)
[Log Out](#)

Wait Sessions 2015-03-16 to 2015-03-20

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Monday

No assigned waitsession

Tuesday

No assigned waitsession

Wednesday

No assigned waitsession

Thursday

No assigned waitsession

Friday

No assigned waitsession

Add Wait Session

Date:

Brother Assigned:

Create New Waitsession

Add Wait Unit

Change in Units:

Brother Assigned:

Create New Waitunit

Active Brother Roll

Order	Name	Waitunits	Days Free
0	Rishi Ved	0	M T W Th F
0	Matt Mercedes	0	M T W Th F
0	Jake Stephens	0	M T W Th F
0	Jake Stephens	0	M T W Th F
0	Jake Stephens	0	M T W Th F
0	Rishi Ved	0	M T W Th F

On the wait session page a normal user can view the assigned wait sessions for the coming week as well as the list of brothers and the number of units and the days of the week that they are available.

A super user, again either an EC member or the housing chair, can assign a new wait session to a given user. The super user would choose which date and the brother to be assigned. Additionally, the super user can add units to any user.

Every week depending on number of units and availability all the wait sessions for the coming week will be assigned to specific brothers.

Table 5: Brother Roll Website

[KSDA](#) [Profile](#) [Worksessions](#) [Waitsessions](#) [Finances](#) [Forum](#) [Documents](#) [Brother Roll](#) [EC Page](#) [Log Out](#)

Brother Roll

Order	Name	Email	Phone Number	Roles
0	Rishi Ved		555-555-5555	Admin
0	Matt Mercedes		555-555-5555	
0	Jake Stephens		555-555-5555	
0	Jake Stephens		555-555-5555	
0	Jake Stephens		555-555-5555	
0	Rishi Ved		555-555-5555	

EC User: Rishi Ved (rved)

Assign Role

Role: Admin

Brother Assigned:

Add Role

Role Name:

Fining Power: ☐

Can edit worksessions: ☐

Can edit waitsessions: ☐

Has EC privileges: ☐

Delete Role

Role Name: Admin

On the brother roll page a user can view the list of brothers as well as their email, phone number, order, and roles/house positions.

For super users, the EC, they can assign roles to specific brothers, create new roles and the admin rights that come with that role, for example editing work and wait sessions, and delete rolls.