

Design Documentation – Paper, Rock, Scissors: Final

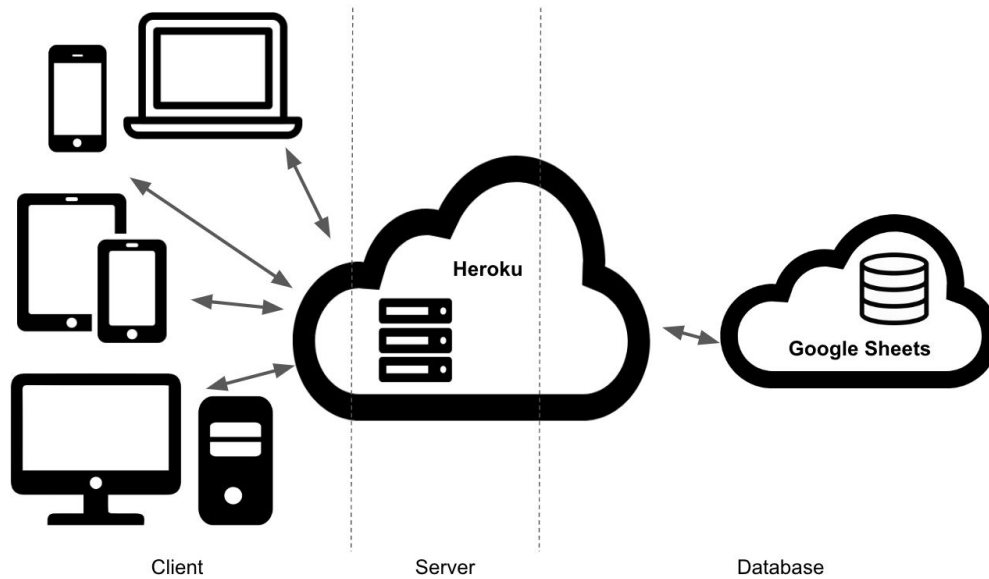
Software Engineering

1 Architectural Design

1.1 Overview

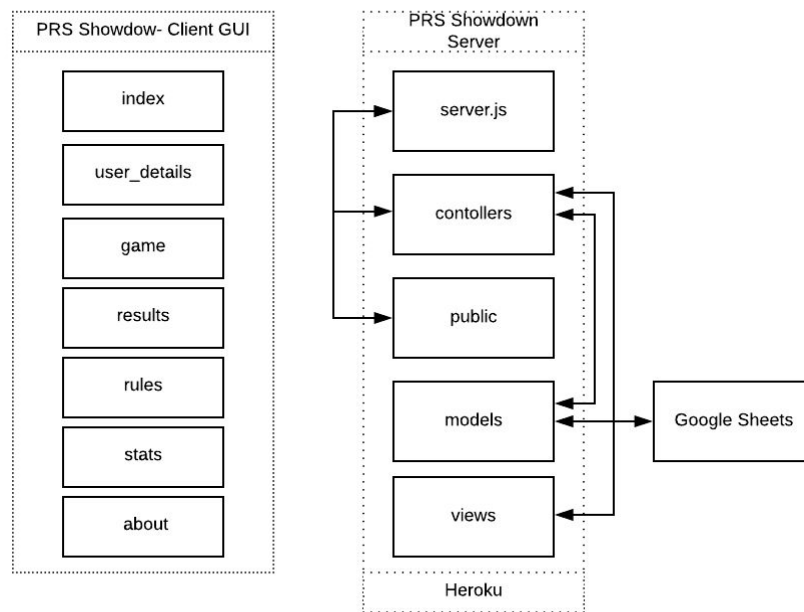
Our system design is the standard client-server architecture common in web apps. It consists of several high-level components:

- **Client:** Any HTML5-compliant web browser (via Bootstrap or Material Design)
- **Server:** Heroku
- **Database:** Google Sheets



2 Low Level Design

2.1 Component Diagram



2.2 Data Diagram

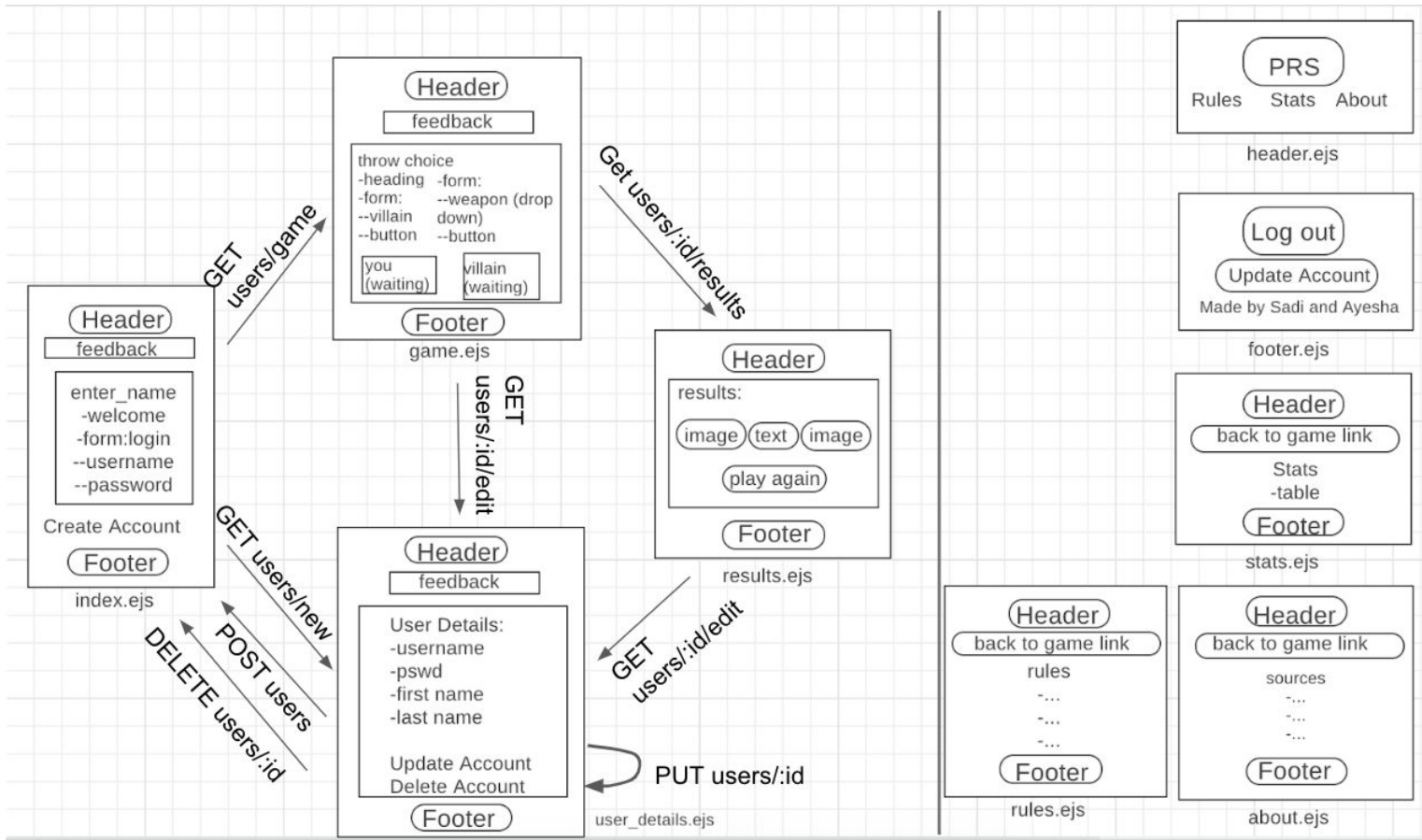
2.2.1 villains.csv

name	pswd	total	wins	losses	rock	paper	scissors	first	last	creation	update
sadi	hel		3	3	0	2	0	1	sadi	gulcelik	
andrew	ting		0	0	0	0	0	0	andrew	ting	
rifat	league		0	0	0	0	0	0	tyler	masuyama	
ayesha	helpp		26	12	7	11	5	10	Ayesha	Ali	

2.2.2 users.csv

name	total	wins	losses	rock	paper	scissors
Mickey	7	0	6	1	4	1
Regal	3	2	0	3	0	0
Harry	3	1	1	0	1	2
Comic_Hans	1	0	1	0	0	1
Manny	1	1	0	1	0	0
The_Boss	6	6	0	5	1	0
Mr_Modern	2	1	0	2	0	0
Pixie	2	0	1	0	1	1
Spock	2	1	1	1	0	1
Bones	0	0	0	0	0	0
The_Magician	0	0	0	0	0	0
Gato	4	2	0	2	1	1

3 Wireframe



4 Routing Table

4.1 server.js

<u>HTTP ACTION</u>	<u>Route</u>	<u>Body</u>	<u>Result</u>
GET	/, /index	n/a	index.ejs
GET	/rules	n/a	rules.ejs
GET	/stats	n/a	stats.ejs
GET	/about	n/a	about.ejs

4.1 controllers/users.js

<u>HTTP ACTION</u>	<u>Route</u>	<u>Description</u>	<u>Body</u>	<u>Result</u>
GET	/user/new	Show new user form	n/a	user_details.ejs, a blank form to input all required info for a user
POST	/users	Create a user	user	index.ejs, the login page
GET	/users/:id/edit	Show edit form for user with :id	n/a	user_details.ejs, a form pre populated with current user information, update button and delete button
PUT	/users/:id	Update user with :id	user	user_details.ejs, a form pre populated with current user information, update button and delete button, and feedback on update
DELETE	/users/:id	Delete user with :id	n/a	index.ejs, the login page
GET	/users/game	username, password	n/a	game.ejs
GET	/user/:id/results	Show the results of a match between user with :id and a particular villain	weapon, villain_name	results.ejs

5 Project Management

5.1 Group Member Tasks

Ayesha

- Controller
- user_details

Sadi

- Models
- Google sheets

Both

- mvc server
- The rest

5.2 Link to Heroku-hosted project

<https://prs-sadi-ayasha.herokuapp.com/>