Hatch-A-Match

A Big-Little Matching Program

Haley Fletcher

May 1, 2019

Introduction

What Is Hatch-A-Match

❌ Bigs & Littles

❌ Genetic Algorithms

❌ Adaptive Algorithm

Project Goals

✗ Easy to use front end with error handling

✗ Ability to handle the *real world* problem of matching people

✗ 1 to 1 matches are always automatched

Justification of my project

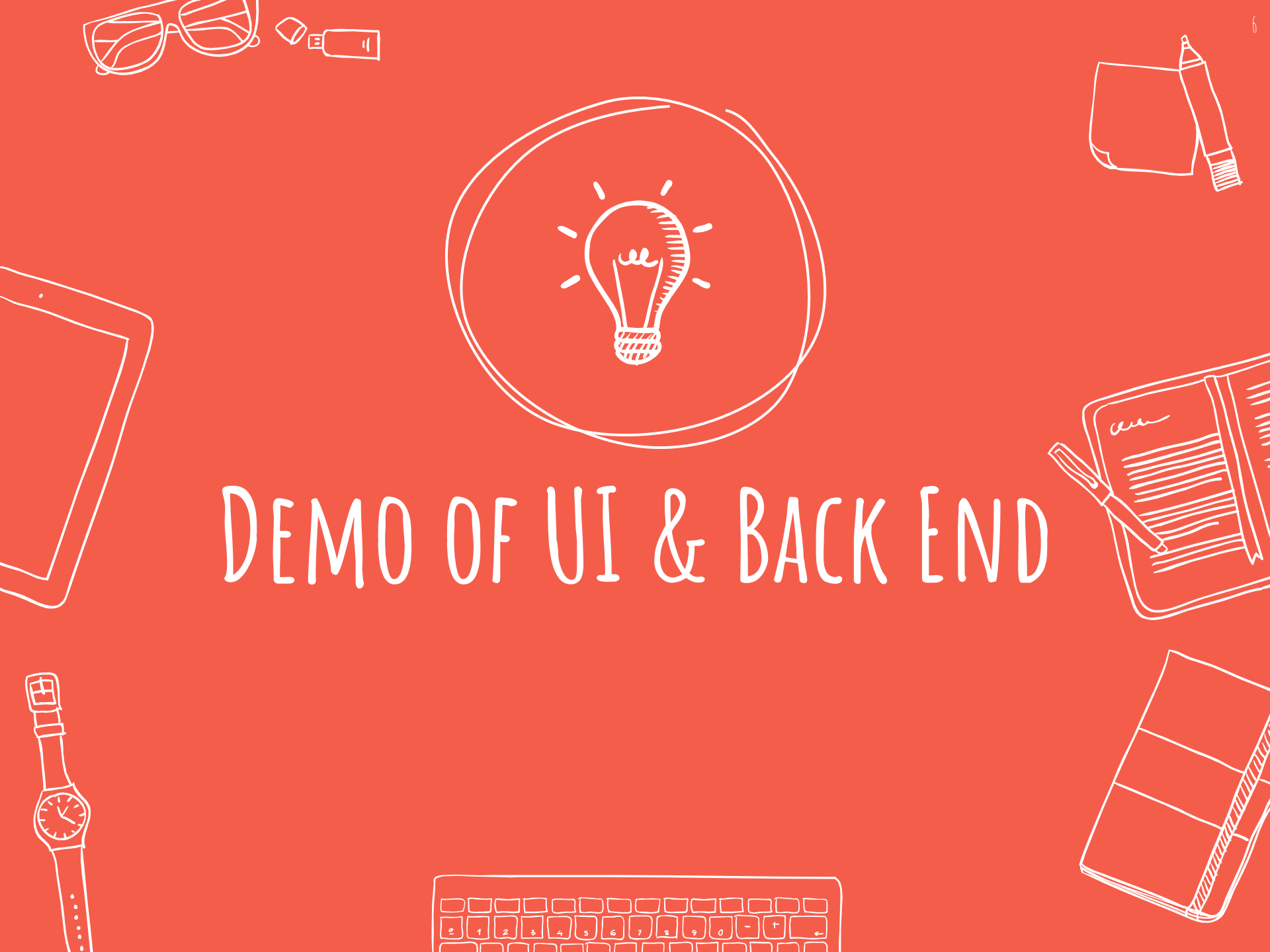## Why this project is important to me:

❌ I have 4 littles and 2 bigs

❌ My roommate is in Greek life and this process at scale is a huge source of drama

Why it's a good use of my abilities:

❌ I LOVE algorithms

❌ I want to make things as simple as possible for people

Demo of UI & Back End

Challenges & Risks

Too Few Preferences
Some people do not respond at all or put too few preferences.

Too Many Preferences
Some people would name more people than normal, or would "tie" people.

Finding Test Data
College students are very busy and it's hard to get information from them.

Learning Front End
Learning to dynamically populate webpages and how to use Github Pages.

Uneven amounts of people
Dealing with the fact that most processes don't have exact bigs -> littles matches

Formulating the Algorithm
Many constraints are difficult to prepare for.

Punch List

✖ Finish Algorithm
✖ Connect Algorithm to front end

Thanks!
Any questions?