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SoftDev
P01 - Restful API Design Document

What is Our Website?

Our website is a dashboard that centralizes all of the things that a user would want on a single site. Our current design will use specific apis to create widgets that would contain everything the user needs, such as weather, an editable to do list, the news, and entertainment in forms of a meme celebrity Kanye West (and other things).

Design Document Specifications:

- The list of program components:
    - Weather widget to show current weather conditions, as people would probably use a dashboard to look at the current weather
    - Todo widget to show what tasks needs to be done because reminders to do things are always helpful and a dashboard is another appropriate place to show reminders
    - Background with random image (for aesthetics)
    - Kanye quotes (because it is hype)
    - News widget (because most people check up on the news in the morning, and we feel like this is appropriate for a dashboard)
- Explanation of how each component relates to the others:

○ Component map visualizing relationships between components.

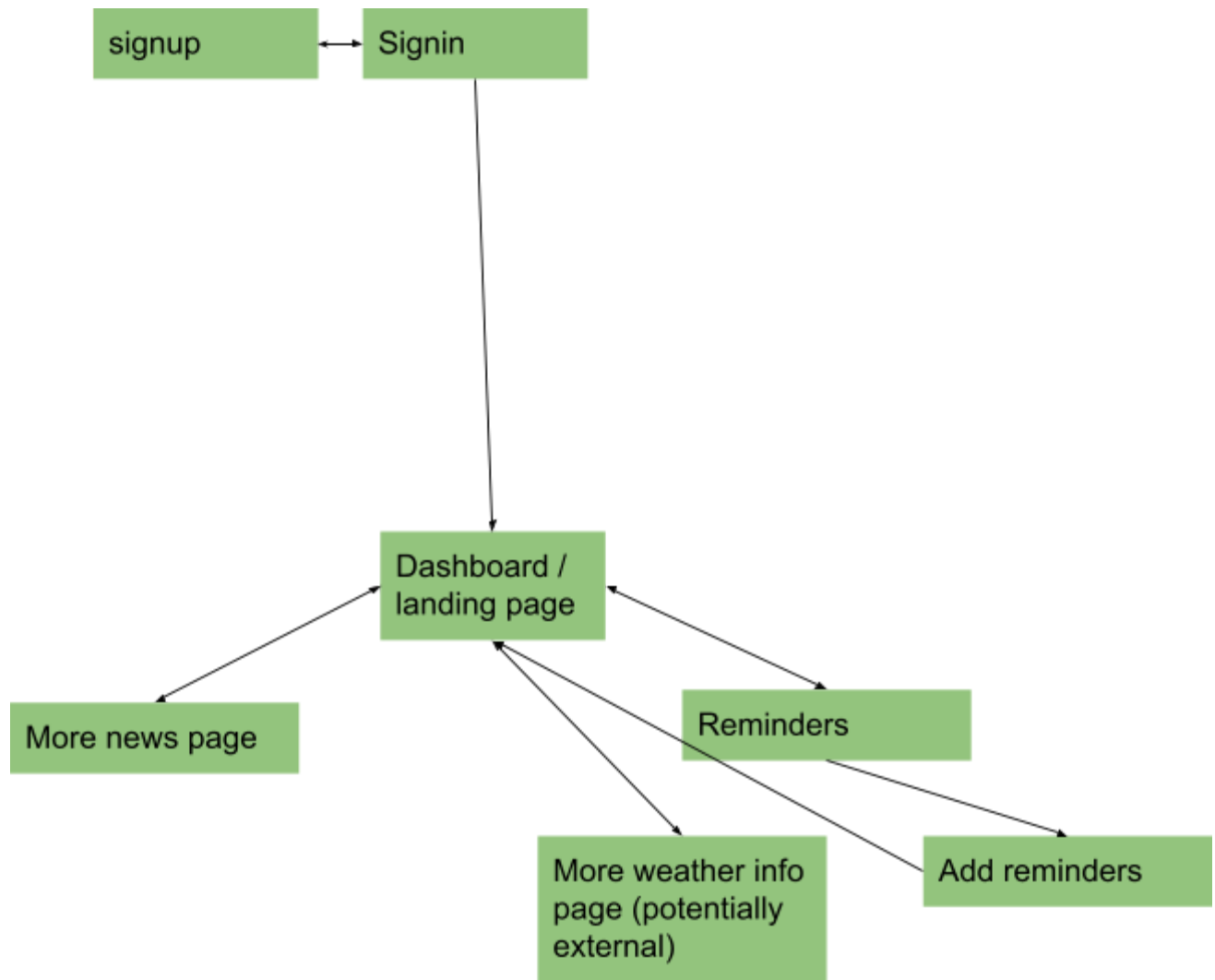| REST APIs		Database file

Python		

Jinja3		

HTML files		CSS framework

	User frontend	
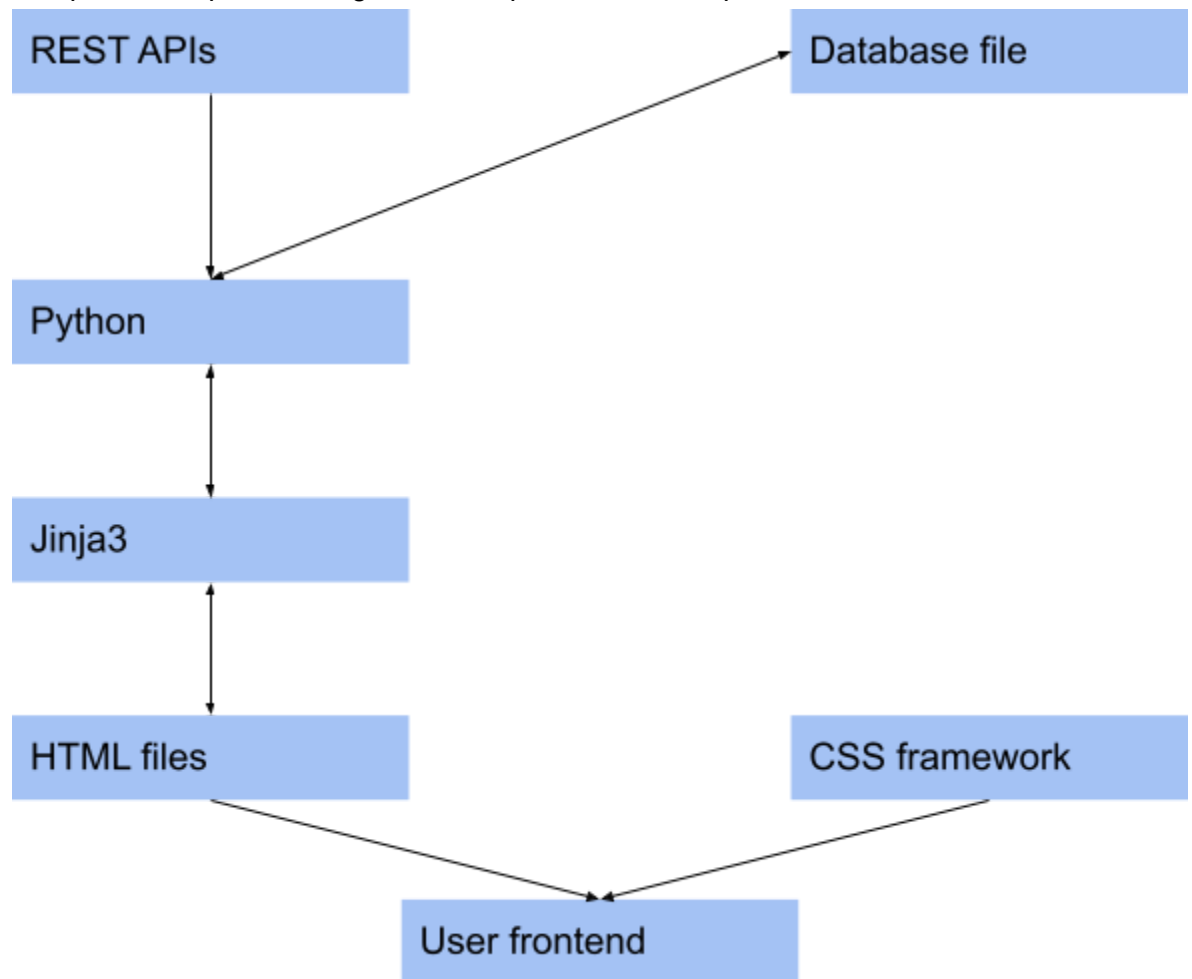
○ Database Organization:

Reminders storage

Unique ID INT	Username STRING	Text string	completedDate STRING	isCompleted INT

User data storage

Unique username STRING	Display name STRING	Password hashed STRING

- Site map for front end:
  ○ Represent each page you envision for your site.
  ○ Show linkages conveying all possible pathways for a user traversing site.

```
signup  ←→  Signin
```

```
                    Dashboard /
                    landing page
```

More news page

Reminders

More weather info
page (potentially
external)

Add reminders

Widgets can expand out into their own main screen (eg for expanded weather information)

Weather widget

Time/Welcoming message

News widget

Kanye Quotes widget

To do widget
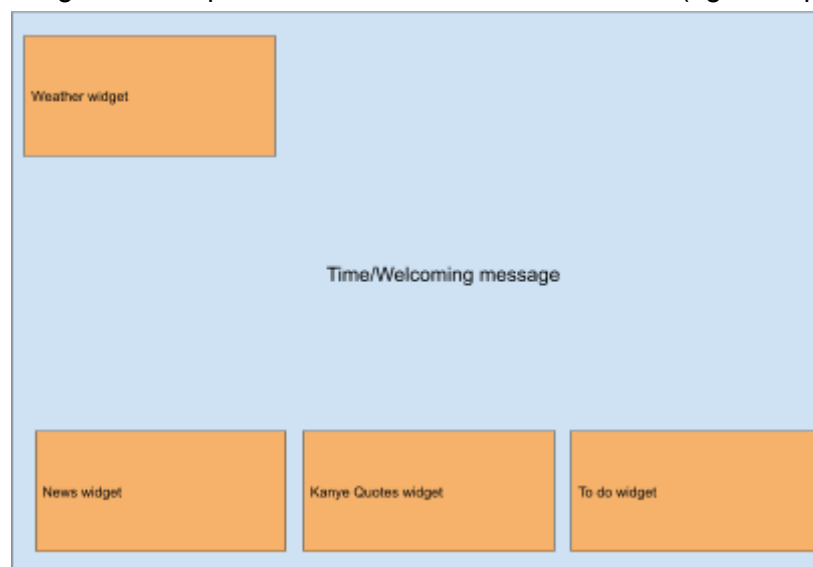
- The blue background will show the actual background
- Tasks required to complete this project:
  - Include assignments of each task to each group member
  - To do list:
    - Login for personal customization of widgets
    - Implementing API's
    - CSS, if needed or wanted
  - Andy: API implementer
  - David: CSS
  - Mark: HTML
  - Shadman: Authentication
- APIs we will be using:
  - Unsplash - random background
  - Kanye REST
  - Weather api
  - News api
- Chosen front-end framework:
  - We will use bootstrap because the developer experience is much better than foundation. Bootstrap has thorough documentation with many examples. There are more utility classes too.
- Target "ship date":
  - 12/23