

UnhandledPromiseRejection

—

Project Pitch Deliverable

Problem

- There are unpleasant things in life
- Relate to any of this?
 - Burnout
 - Distractions
 - Boring stuff to do
 - Lack of motivation

- We began with the million dollar problem we are all facing today:

“I feel so non-productive and burnt out during the rona”




Appetite


- **We are delivering a project that bills approx. 170 man-hours total, starting Feb 1, 2021**
- 60-70 of these hours are assumed to be direct coding,
 - excluding re-work, CI/CD, test, UAT, design, service transition/introduction, etc...
 - We will leave flex time for cleanup/refactoring/debugging/finishing features
- We arrive at these constraints through an assumption of 1/hr day available for consultants to bill to the project, a 70% efficiency rate for all billable hrs
- We have assigned man-hour estimates for our features based on a 1.5x uncertainty penalty
 - I.e. feature we think takes 10hrs to complete really takes 15hrs due to various inefficiencies


Solution



User Personas, User Stories, how they inform features

DungeonDweller33	Staple 6th student
	
About DungeonDweller33 is an enthusiastic student that's slowly being crushed by the weight of unpredictable online classes and the lack of social interaction.	Major Linguistics Current Year 2nd Living Status With Parents
Motivations <ul style="list-style-type: none">• Interest in Linguistic research• Desire to work in a lab under favorite professor• Desire to obtain a masters and beyond in the field	Frustrations <ul style="list-style-type: none">• "my bad sleep schedule affects productivity"• "the wild variation in class difficulty makes it a bit annoying to manage expectations"• "all studying disappears after the test is over"
Needs and Goals <ul style="list-style-type: none">• Concrete studying habits• Surviving their second year• Stable schedule• Better sleeping habits• Regularity in classes	Recent Moods <ul style="list-style-type: none">• Bored• Tired• Rushed

Jacob	Panicking undeclared undergraduate
	
About: Esben is a 2nd year undergraduate student whose feeling increasingly concerned about his ability to get into his ideal major due to falling grades since the pandemic	Major Undeclared Current Year 2nd Living Status With Parents
Motivations <ul style="list-style-type: none">• Help pay for sibling's higher education• Move out of parents house• Saving to buy first car• Transfer out into a major of choice	Frustrations <ul style="list-style-type: none">• "The time I spend studying blends together and I don't feel like I got much done even over long stretches of studying sessions"• "I can't focus well with family members going about their day around me"• "It's difficult being motivated enough to study by myself especially with the pandemic going on"
Needs and Goals <ul style="list-style-type: none">• Help family with daily chores• Stable work/rest schedule• Enough time to overcome high workload• Earn a 3.0 GPA for the quarter	Recent Moods <ul style="list-style-type: none">• Tired• Overloaded• Behind

Elaina	Anxious student on postgrad path
	
About Elaina is a 4th year undergraduate student waiting for grad-school applications and wrapping up her final undergraduate year	Major Math-CS Current Year 4th Living Status With Parents
Motivations <ul style="list-style-type: none">• Earning a doctorates and becoming a professor• Approval from family• Becoming successful in her own definition as to establish a sense of self	Frustrations <ul style="list-style-type: none">• - Its difficult to not be distracted with access to everything on my computer• - Many of my classes are not interesting• - Balancing school + chores + self care
Needs and Goals <ul style="list-style-type: none">• Maintain GPA for final transcript• Finding a housing location for next year• Preparing for post-graduate educations	Recent Moods <ul style="list-style-type: none">• Stressed• Tired• Bored• Lazy

DungeonDweller33

- Non-stem major (ironic) looking to pursue research in labs
- Has many papers deadlines coming up

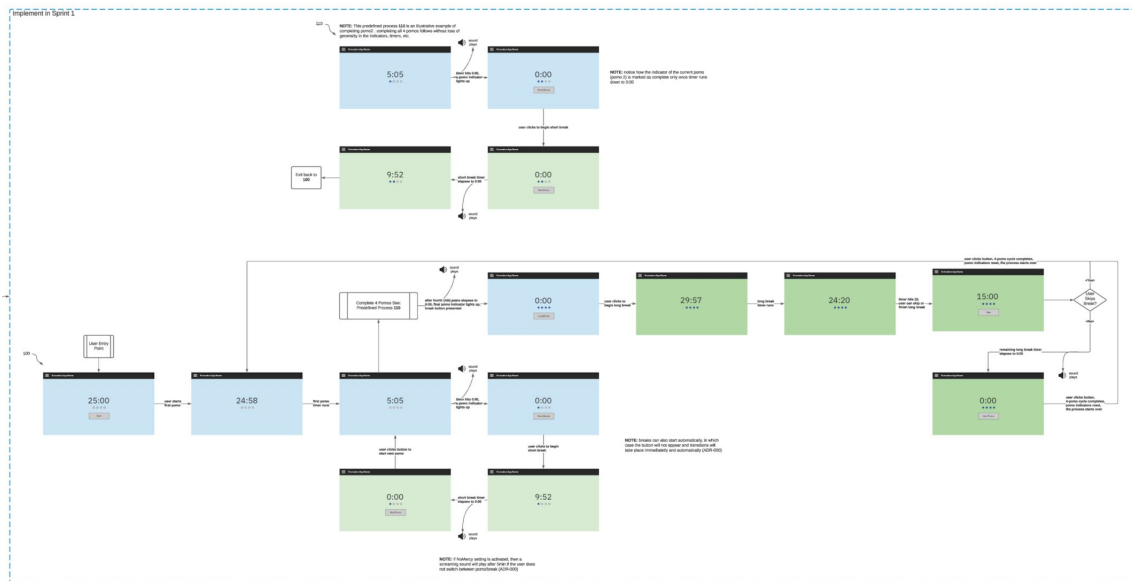
Jacob

- Undeclared undergraduate student
- Stressed out about major decisions and screening courses

Elaina

- Stem major looking to pursue post graduate
- Intimidated by future workload in masters and PhD programs

- Main goal: MVP complete
- Pomo timer and break timer
- 1 button interface
- Background color change on breaks



```

CSE 110 - W121 - TEAM 31
UPR - High-Fidelity Interface Design

Overview:
This set of documents decomposes
implementation for screens 1,2 and 3.1
illustrates user workflows, illustrates
breakpoint behavior for relevant
components, and solidifies color &
typography choices for the end product
The highest resolution version of each
screen is provided in a document
attached herewith.

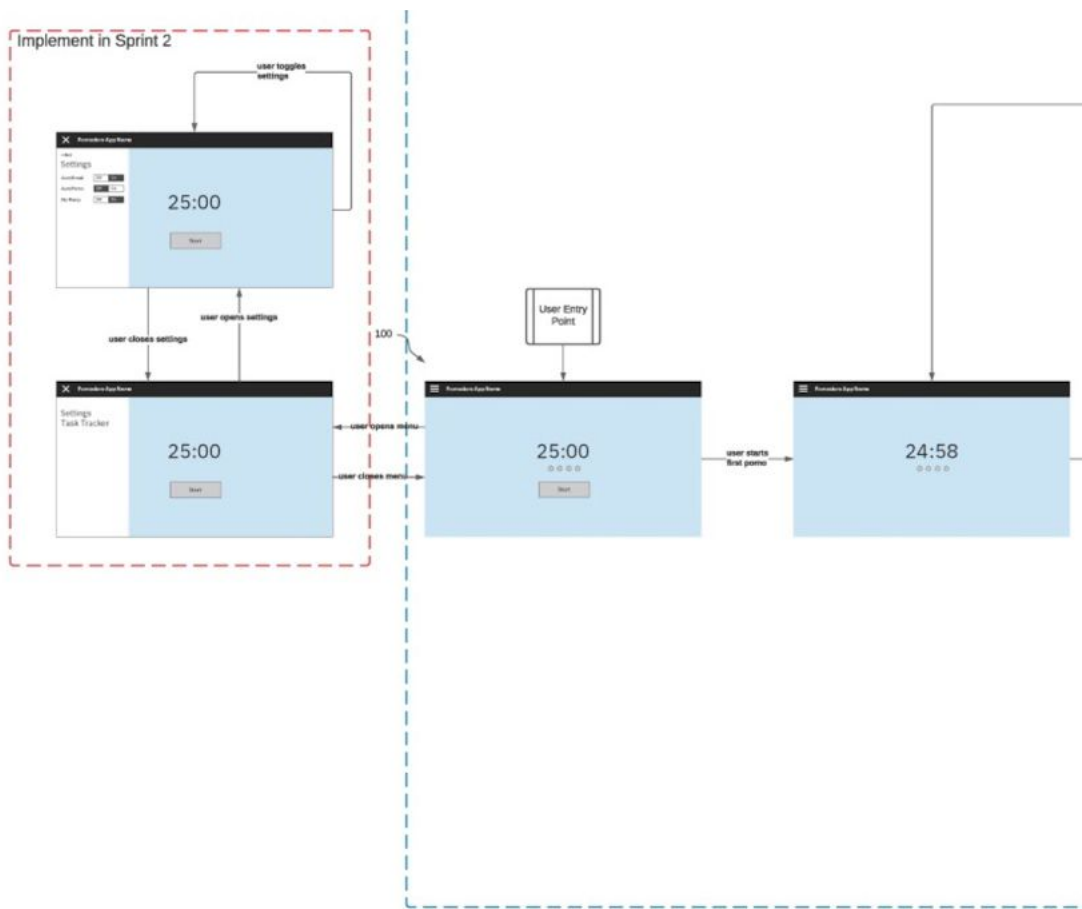
Interface Metadata:
HEX:
blue 10: #cfe2f3
blue 90: #1555cc
green 10: #90ead3
green 90: #66b77b
white 100: #f5f5f5
black 100: #000000
gray 10: #eeeeee
gray 20: #b7b7b7
gray 90: #434343

BREAKPOINTS:
Desktop: >=991px wide
Tablet: <= 991px wide
Mobile Landscape: <= 767px
Mobile Portrait: <= 481px

```

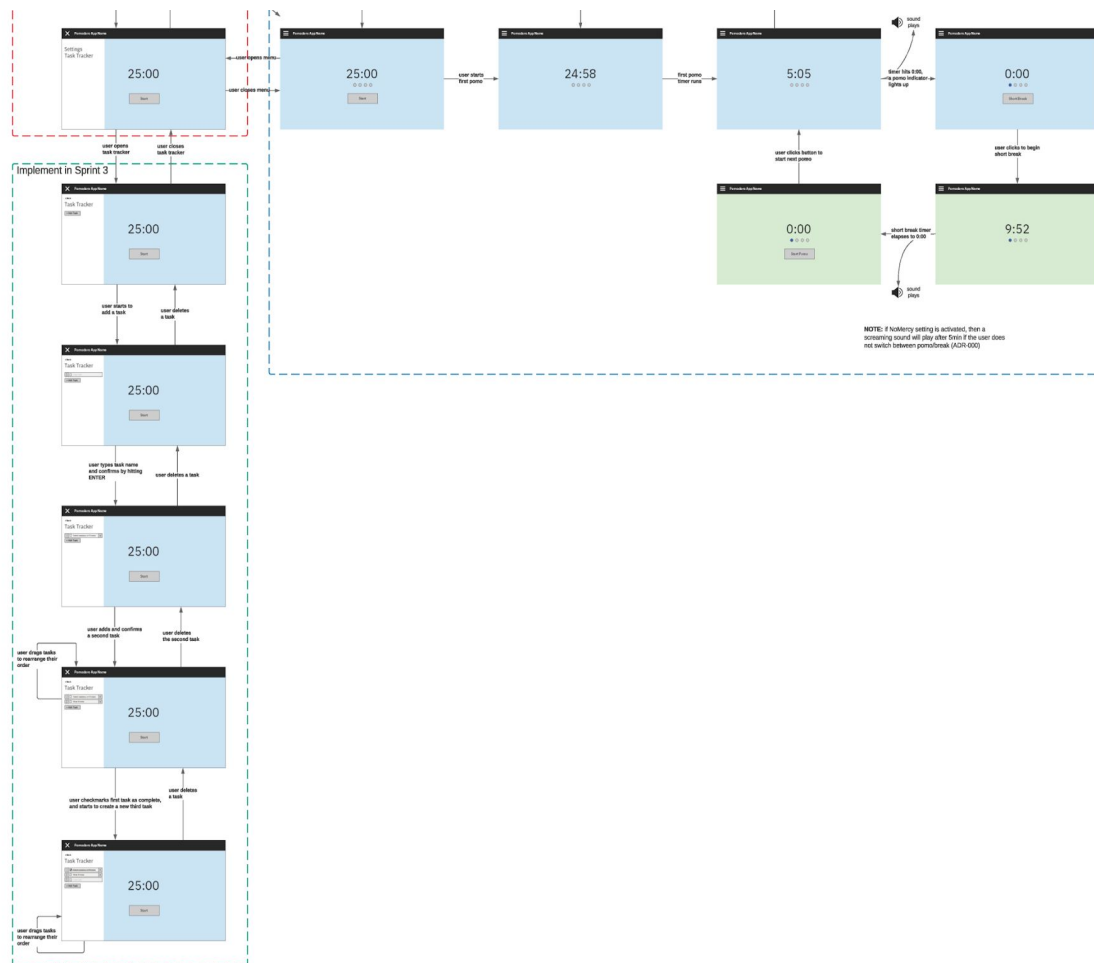
■ Sprint 2

- Implement hamburger menu
- Add a way to visually track pomo cycles via “bubbles”
- Breakpoints for changing browser size



Sprint 3

- Stretch goals:
- Task list
- Custom timer durations



Rabbit Holes / Risk Management

Settings

- Dark mode? Less detail? More detail?

Test Process

- Unit testing, different devices, debugging :(

IT Infrastructure

DevOps pipeline, Production Environment

Rabbit Holes / Risk Management - But wait there's more

Unit, Functional, Integration, Load... my head hurts ;(

UAT: personal review, offshore resources?

Breakpoints

- For different devices/browser sizes

Schedule Risk

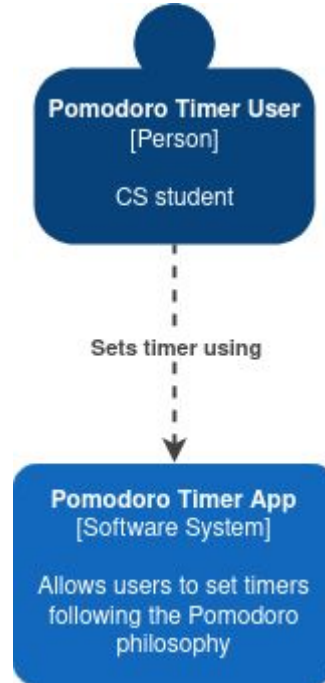
- Realistically, less than 4 weeks for the remaining 3 sprints

No-Go's (Excluded from scope)

- No hyperscaler infrastructure (AWS, Azure...)
 - No advanced infrastructure (Replication, Disaster Recovery, CDN).
- **No Auth Systems / user login** (AWS Cognito, Auth0, Otka...)
- **No task or project management capabilities** (this is not Jira 2)

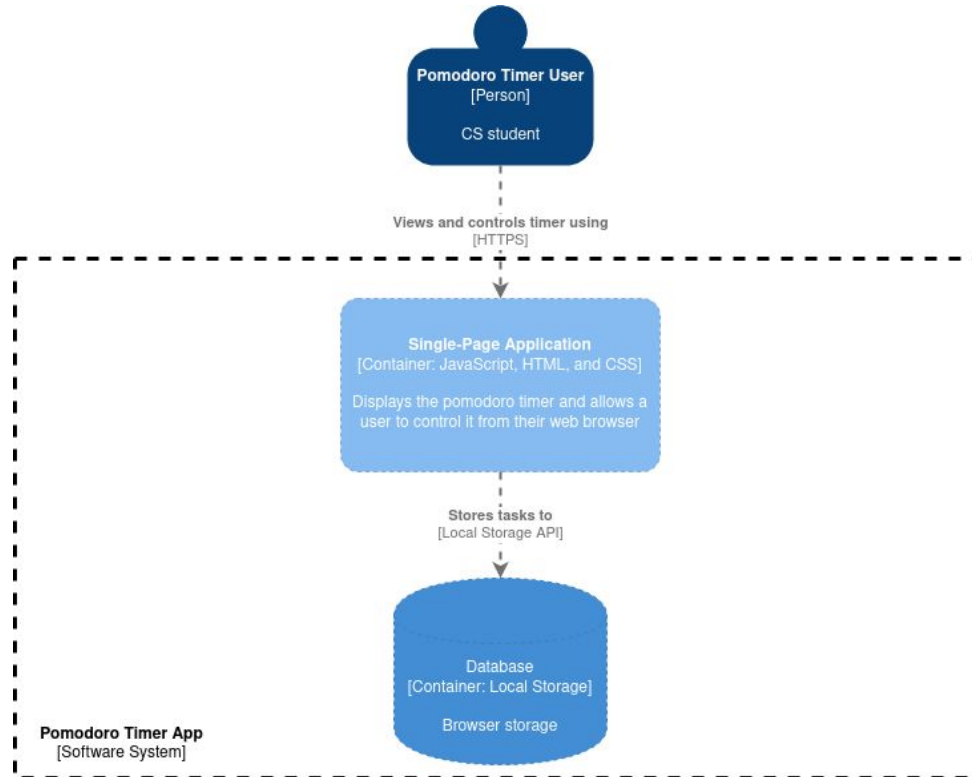
Solution Architecture

C4 Level 1 - System Context



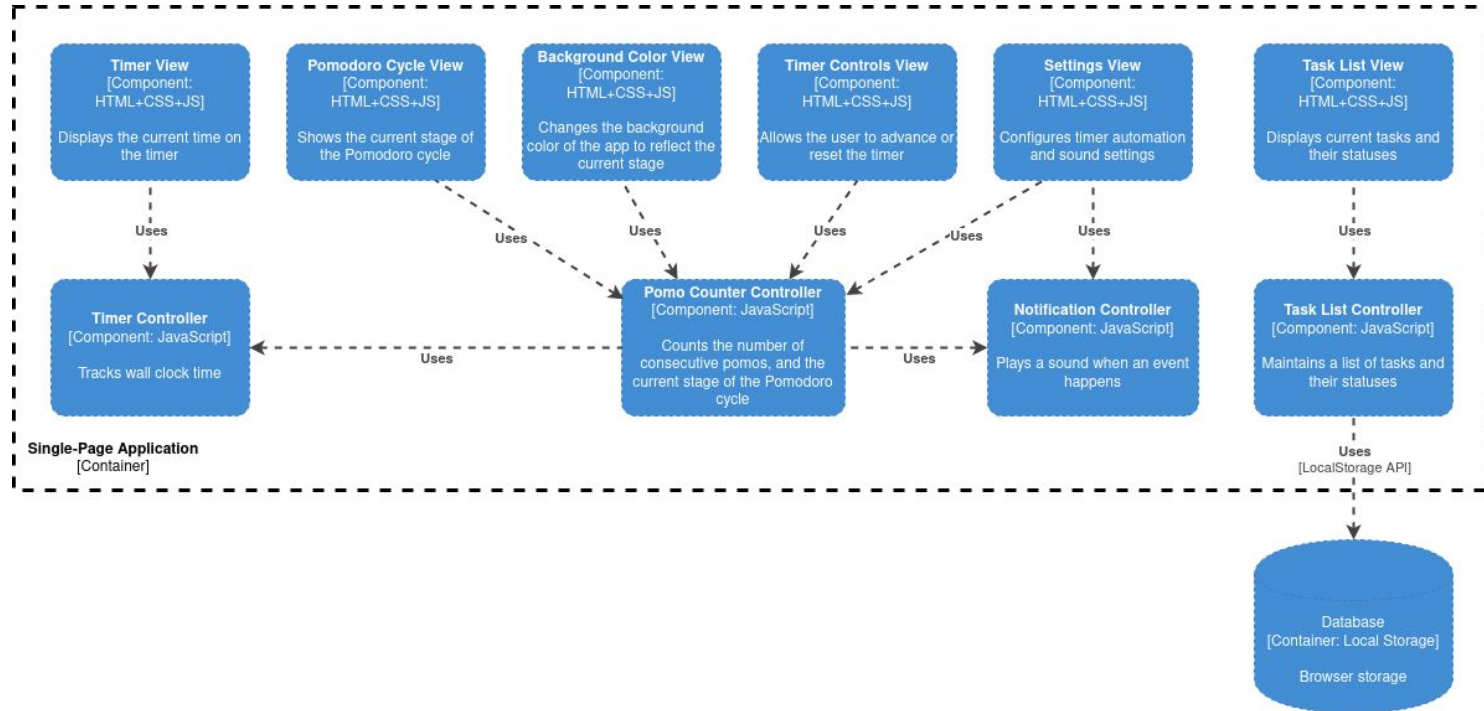
Solution Architecture

C4 Level 2 - Container



Solution Architecture

C4 Level 3 - Component



Organization

- Values + Capabilities Matrix
- Functional Leads: Design, Dev, Test, DevOps(CI/CD), UAT
- Special Roles:
 - (see contract)

Quality Assurance / Git repo / Pipeline Overview

- Each feature gets own branch
- Ready to merge: Code review
- Automated Unit Test & Style Check
- Auto Deploy to Test
 - Manual UAT
 - Manual UAT signoff
- Automatic Promotion to production environment
- Misc files stored in Admin

Questions?

UnhandledPromiseRejection