

UnhandledPromiseRejection

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Project Pitch Deliverable

Problem - todo

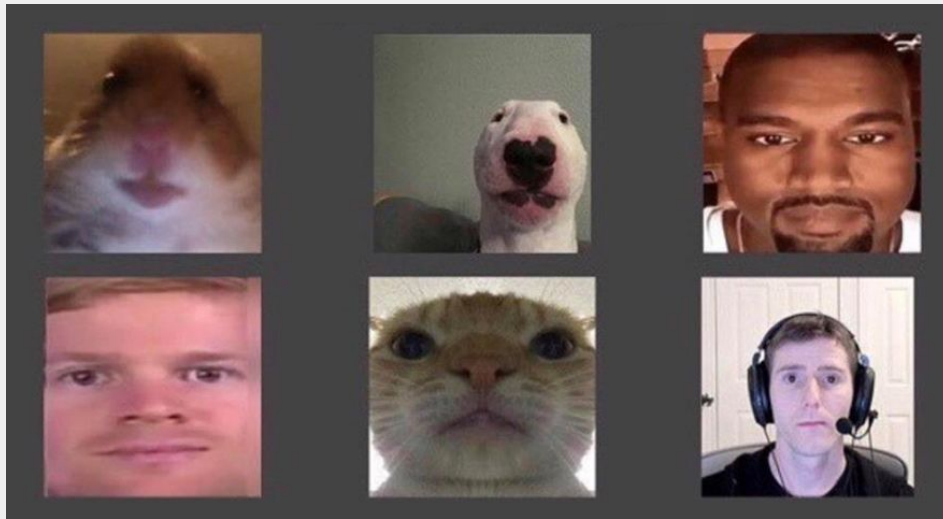
There are unpleasant things in life

- 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

170 hrs

Total Billable Man-Hours

We are delivering a project that bills approx. 170 man-hours total, starting Feb 1, 2021

We have assigned man-hour estimates for our features based on a 1.5x uncertainty penalty

60-70 hrs

Man-Hours for Direct Coding

60-70 of these hours are assumed to be direct coding, excluding re-work, CI/CD, test, design, etc.

We will leave flex time for cleanup, refactoring, debugging, and polishing features

1 hr/day

Minimum Per-Person Availability

Team members are expected to commit 1 hour/day to the project by weekly moving average

We load balance work between team members by leveraging this estimate and team health metrics

Solution

Core features:

- Pomodoro Timer
- Minimalist design
- Single button operation

Advanced features:

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



Stories & Features are informed by our own challenges

MDQ / Problem: I feel so non-productive and burnt out during the rona
Market segment: “zoom university” undergrads at four-year american research universities

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

- Interest in Linguistic research
- Desire to work in a lab under favorite professor
- Desire to obtain a masters and beyond in the field

Needs and Goals

- Concrete studying habits
- Surviving their second year
- Stable schedule
- Better sleeping habits
- Regularity in classes

Frustrations

- "I 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"

Recent Moods

- 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

- Help pay for sibling's higher education
- Move out of parents house
- Saving to buy first car
- Transfer out into a major of choice

Needs and Goals

- Help family with daily chores
- Stable work/rest schedule
- Enough time to overcome high workload
- Earn a 3.0 GPA for the quarter

Frustrations

- "The time I spend studying blends together and I don't feel like I get 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"

Recent Moods

- 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

- Earning a doctorates and becoming a professor
- Approval from family
- Becoming successful in her own definition as to establish a sense of self

Needs and Goals

- Maintain GPA for final transcript
- Finding a housing location for next year
- Preparing for post-graduate educations

Frustrations

- "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"

Recent Moods

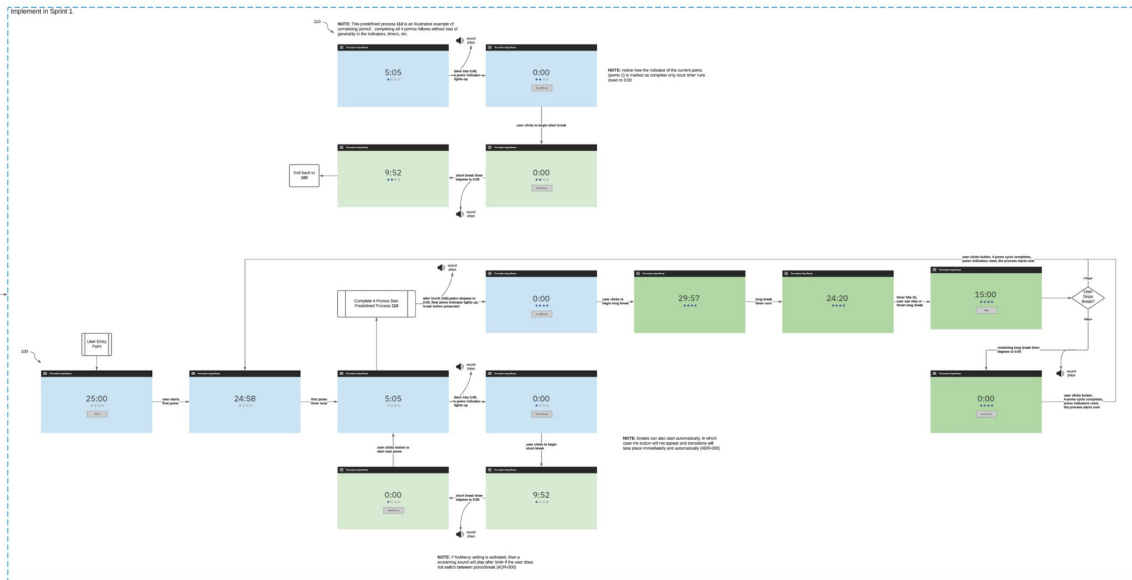
- Stressed
- Tired
- Vibing
- Lazy

Our **100 minutes** framework provides structure and clarity for chaotic, uncertain schedules

Manually **starting work/breaks** helps users regain internal loci of control and adapt to distractions

Incentive-based approaches are helpful for anxious high performers, yielding our **Bubbles** feature

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



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CSE 110 - W21 - TEAM 31
UPPER - High-Fidelity Interface Design

Overview:
This set of documents decomposes
implementation for sprints 1, 2 and 3
illustrates user workflows, illustrates
breakpoint behavior for relevant
components, and solidifies color and
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: #cfe233
blue 90: #1155cc
green 10: #95d6a3
green 90: #007a7b
white 100: #ffff
black 100: #000000
gray 10: #eeeeee
gray 20: #d7d7d7
gray 40: #cccccc
gray 90: #434343

BREAKPOINTS:
Desktop: >=991px wide
Tablet: <= 991px
Mobile Landscape: <= 767px
Mobile Portrait: <= 478px

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Sprint 1 Stories

Methodology: Points - Hours

1	2-4
2	4-6
3	4-8
5	8-16
7	16-24
9	24+

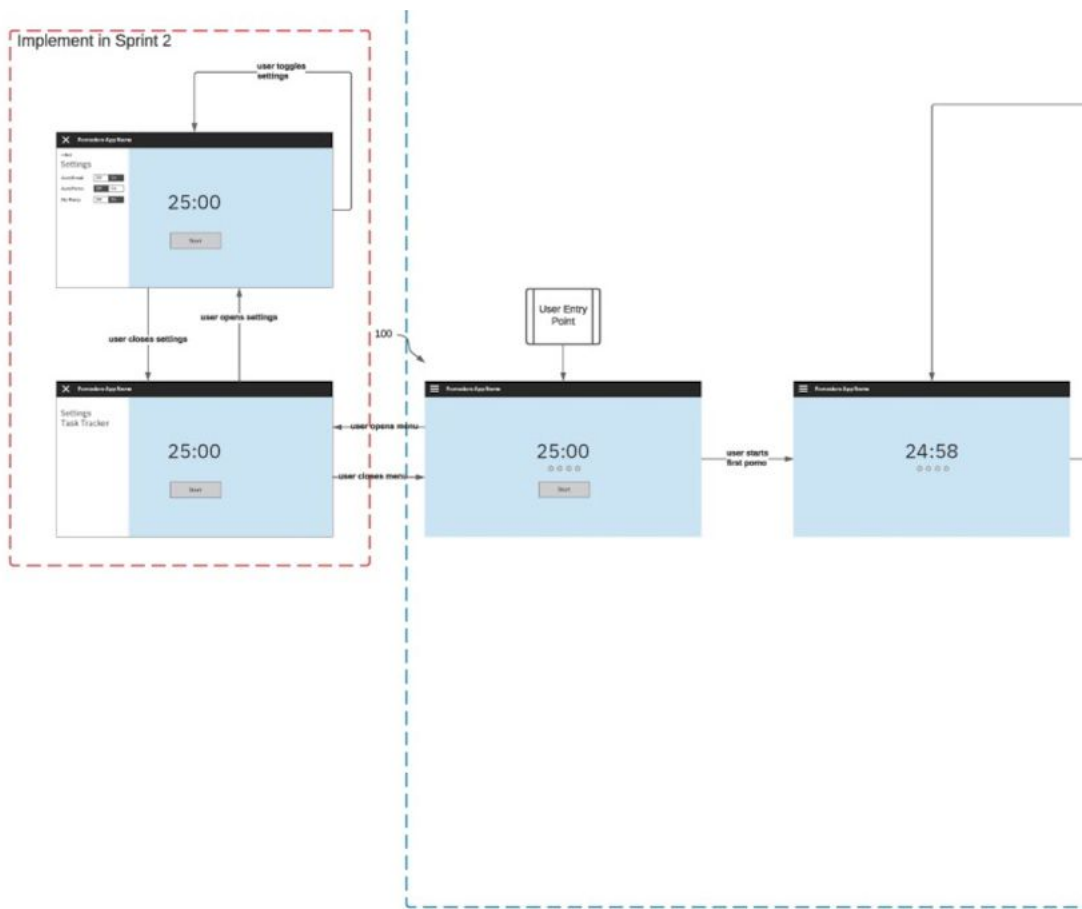
hours are direct coding.

Epic 1: MVP complete

Ref.	Story	Benefit	pts	hrs
E1S1	Start/Toggle Button	Start the pomodoro timer	1	2-4
E1S2	Pomodoro Timer Section	See how long left in pomodoro	2	4-6
E1S3	Break Timer Section	See how long left in break	2	4-6
E1S4	Indicators	behavior reinforcement	5	8-16
E1S5	Background Color Change	soothing + encouraging users	1	2-4
E1S6	Navbar	Seamlessly access extra tools	3	4-8
E1S7	Sound Notification	Gently keeps users on track	1	2-4
E1S8	Long skip	Skip long break if <15min left	2	4-6

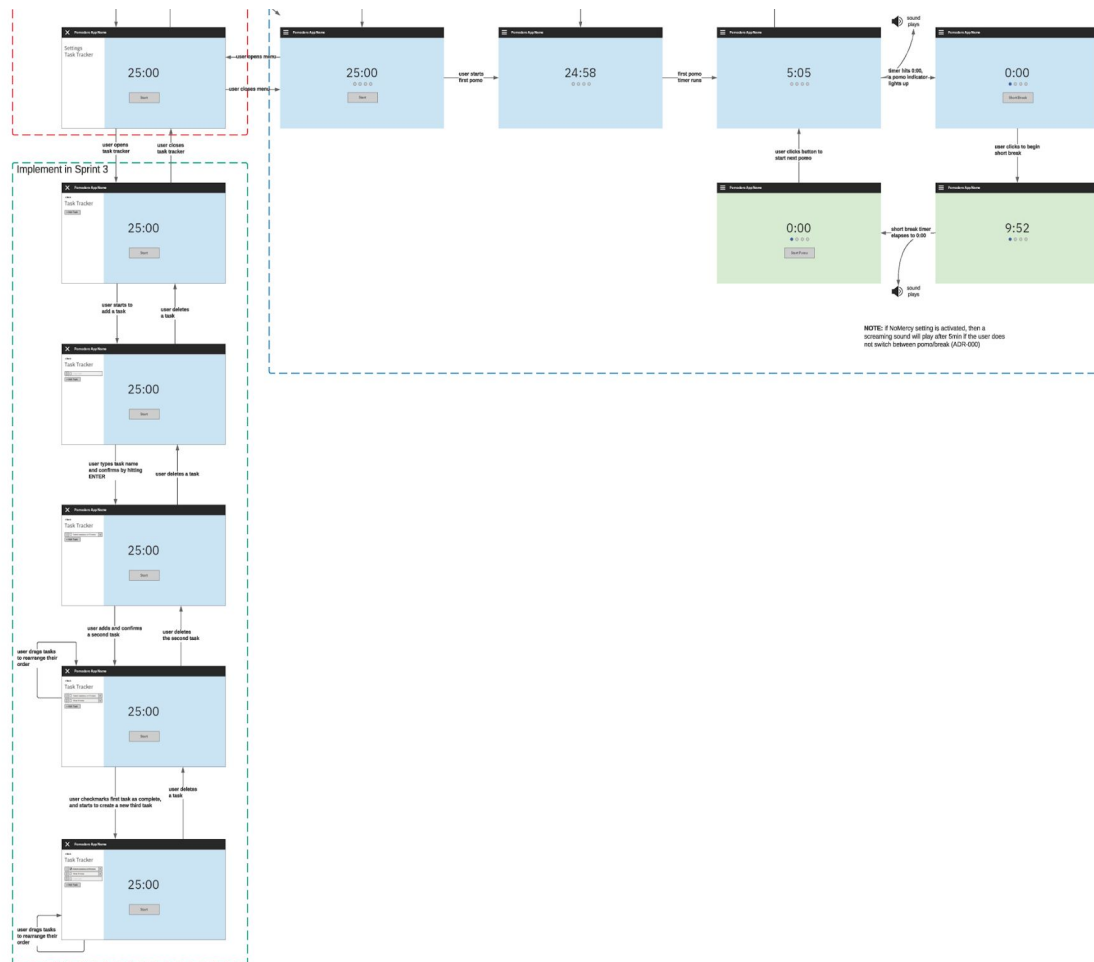
■ Sprint 2

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



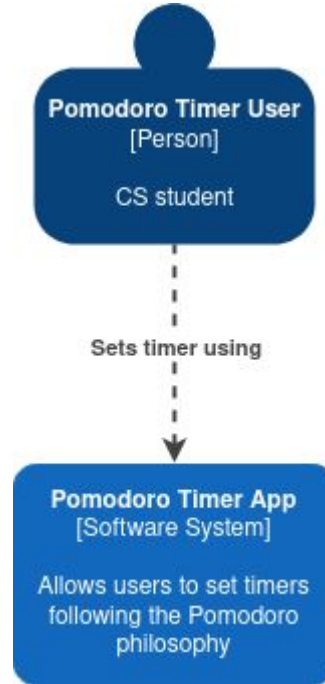
Sprint 3

- Stretch goals:
- Task list
- Custom timer durations



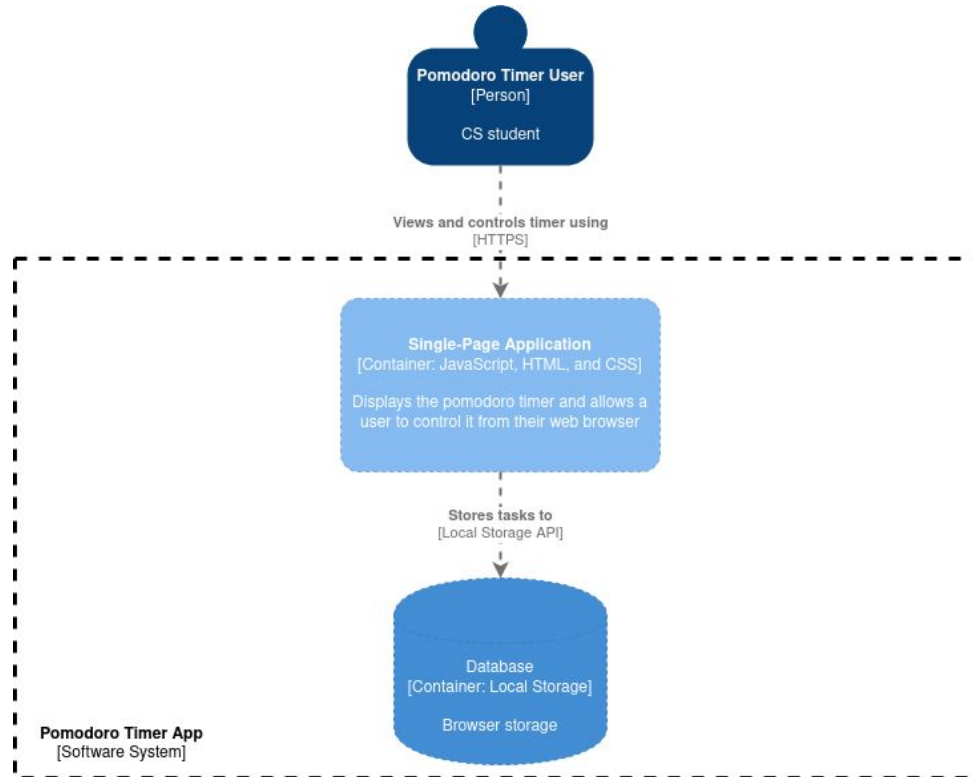
Solution Architecture

C4 Level 1 - System Context



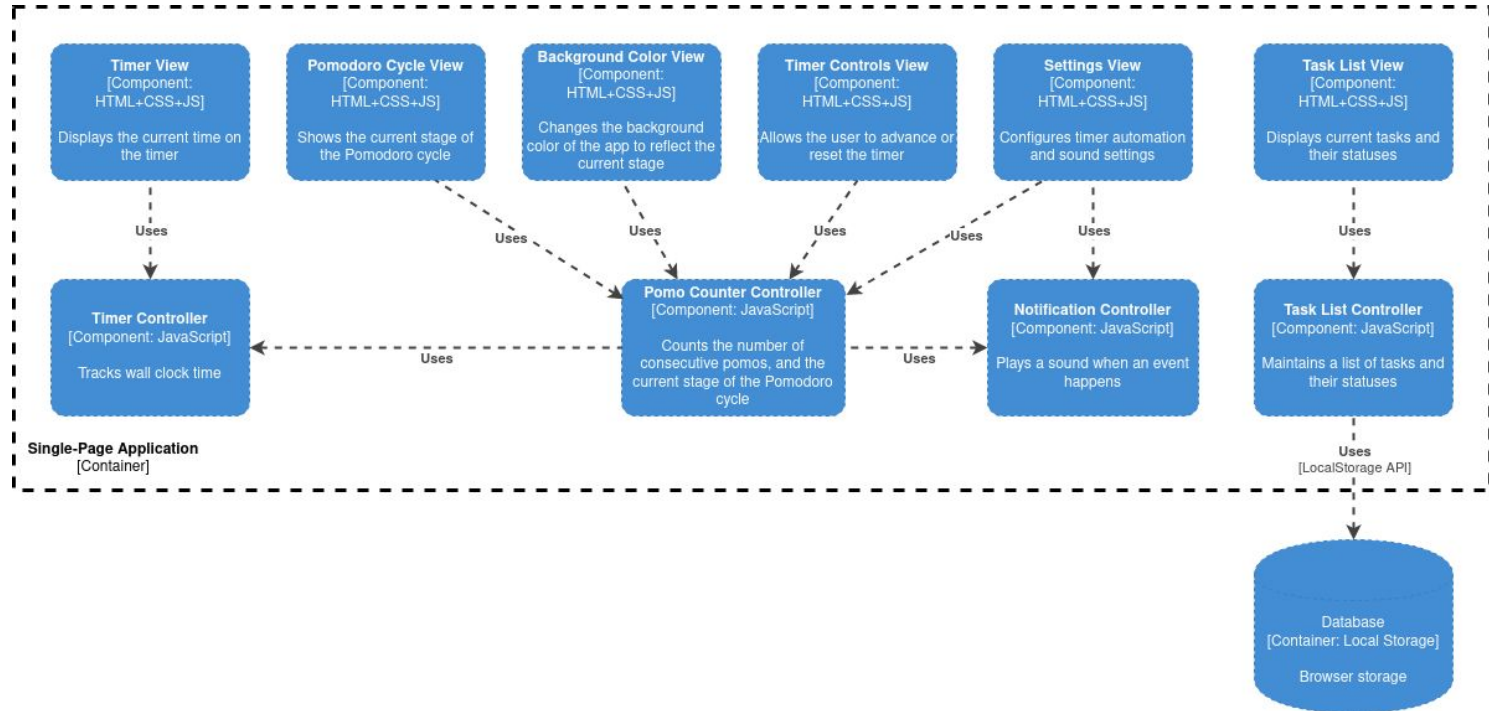
Solution Architecture

C4 Level 2 - Container



Solution Architecture

C4 Level 3 - Component



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)

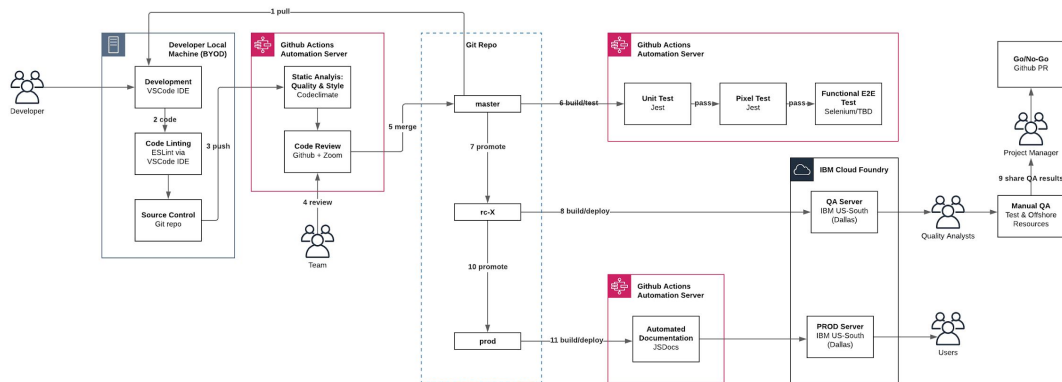
- **No hyperscaler infrastructure** (AWS EKS, Elastic Beanstalk...)
 - No advanced infrastructure (Replication, Disaster Recovery, CDN).
- **No Auth Systems / user login** (AWS Cognito, Auth0, Otka...)
- **No task or project management capabilities** (this is not Jira 2)

Organization

- Values + Capabilities Matrix - dual leads on project, but also “doers” that specialize
- Functional Leads:
 - Dev - Josh
 - Design - Padraig
 - Test - TBD at Sprint 1 kickoff
 - CI/CD - TBD at Sprint 1 kickoff
 - QA - TBD at Sprint 1 kickoff

Pipeline Overview

- Trunk-based development to foster communication, norm & storm, and avoid merge hell
 - Everyone works in master, promotion to rc-X, prod
- Ready to merge: Code review
- Automated Unit Test & Style Check
- Auto Deploy to Test
 - Manual UAT + sign-off
- Automatic Promotion to production environment
- Misc files stored in Admin



Questions?

UnhandledPromiseRejection