

Release Plan

Based on the following template/requirements:

<https://drive.google.com/file/d/1nz3dsIcrQ0MXK7j73IV6bIlbLq9IlcZw/view>

Heading

WebWatch

Release date: 12/03/2024

Revision date: 12/01/2024

High-level goals

We aim to provide a solution that monitors a web page for changes and notifies the user (by email, Discord, Slack, or other integrations) when it occurs. Achieving this, our next goal is to build a web application; enabling the deployment of this service and allowing users access with the creation of an account, instead of hosting it themselves. Our loftiest goals include allowing users to choose specific content within a page to monitor, as well as creating a drag-and-drop interface to enable users to create complex, personalized automation.

User stories defining the scope of the release (listed by priority)

- Sprint 1
 - As a user, I would like to receive an email notification when a webpage's content has changed. (2)
 - As a user, I would like to be able to scrape dynamic web pages to get more accurate monitoring results with modern web pages. (3)
 - **(MOVED TO PRODUCT BACKLOG)**
 - As a user, I would like a modular CLI service to interact with the backend.
 - I would like to receive notifications through multiple channels (email/discord/slack/etc) for detections. (2)
- Sprint 2
 - As a user, I would like a web interface that allows me to create and log in to my account. (5)
 - As a user, I would like a dashboard to create and modify monitoring tasks in my account. (3)
 - As a user, I would like a graphical interface to view monitoring jobs in my account. (5)

- **(MOVED TO PRODUCT BACKLOG)**
 - As a user, I would like to be able to log in with external identity providers, like signing in with Google (OpenID/OAuth). (5)
- Sprint 3
 - **(MOVED TO PRODUCT BACKLOG)**
 - As a user, I would like to be able to see what changed on the webpage and selectively choose what parts are monitored, to reduce “noise” generated by other parts of a page changing which I’m not concerned with. (8)
 - As a user, I would like to be able to track the prices on online marketplaces so I can buy things cheaply. (5)
 - **(ADDED LATER TO REFLECT SPRINT PROGRESS):**
 - As a user, I want better account privacy and security, such that others aren’t able to access or modify my tasks. (3)
 - As a user, I’d like to be able to reset my password. (8)
 - As a user, I’d like to be able to delete my account. (5)
 - As a user, I want a simpler task-scheduling mechanism. (8)
 - As a user, I want a more intuitive task-creation interface. (3)
 - As a user, I want an easy way to test whether my notifications are configured correctly, without waiting for a website to change at an arbitrary time. (5)
- Sprint 4
 - **(MOVED TO PRODUCT BACKLOG)**
 - As a user, I would like to have the option to wire together my custom action blocks to have the scheduler perform specific tasks I define. (21)
 - As a user, I would like to have the ability to create and share templates of my custom action workflow. That way, other users can extend my workflow and further customize it. (3)
 - **(ADDED LATER TO REFLECT SPRINT PROGRESS)**
 - As a user, I would like to have more descriptive error messages, such as the cause of registration failure being displayed when I register with a previously used email. (3)
 - As a user, I want more visual feedback when creating, editing, or deleting tasks. (3)
 - As a user, I want to be able to change my registered email after creating my account. (3)
 - As a user, I’d like a more polished web interface without unnecessary or partially implemented features. (1)
 - As a user, I would like to be able to see what changed on the webpage and selectively choose what parts are monitored, to reduce “noise” generated by other parts of a page changing which I’m not concerned with. (8)

Sanity check

With the way that we've defined the minimum viable product and structured our priorities, we should be able to implement the most critical features of this project. Our bigger ideas are placed in the final sprints to ensure lofty ideas don't get in the way of shipping a usable product. Overall, we already have some basic knowledge of Python, web development, and containerization. That being said, each of us will still need to learn new technologies and concepts for this project, so even the early phases may take longer than expected.

Details for items moved to product backlog:

As a user, I would like a modular CLI service to interact with the backend.

- Moved from Sprint 1. We want to implement this as an additional feature in the future, but it's not important to our MVP at the moment.

I would like to receive notifications through multiple channels (email/discord/slack/etc) for detections.

- Moved from Sprint 1. We started this functionality in sprint 1, but it wasn't yet available as a completed feature to the end user.

As a user, I would like to be able to log in with external identity providers, like signing in with Google (OpenID/OAuth).

- Moved from Sprint 2. Implementing basic email/password authentication took longer than expected, so we didn't have time for this additional option.

As a user, I would like to be able to see what changed on the webpage and selectively choose what parts are monitored, to reduce 'noise' generated by other parts of a page changing which I'm not concerned with.

- Moved from Sprint 3. During Sprint 3 we worked on finishing our task backlog from Sprint 2, focusing on getting our basic web application up and running. We began experimenting with methods to solve this story towards the end of sprint 3, but it was not finished until sprint 4.

As a user, I would like to be able to track the prices on online marketplaces so I can buy things cheaply.

- Moved from Sprint 3 for the same reasons as the previous story.

As a user, I would like to have the option to wire together my own custom action blocks in order to have the scheduler perform specific tasks I define.

- Moved from Sprint 4; we need all available time to finish implementing previous user stories, and this was not necessary for the minimum viable product

As a user, I would like to have the ability to create and share templates of my custom action workflow. That way, other users can extend my workflow and further customize it.

- Move from Sprint 4 for the same reasons as the previous story.

[Initial Presentation](#)

[Final Presentation](#)