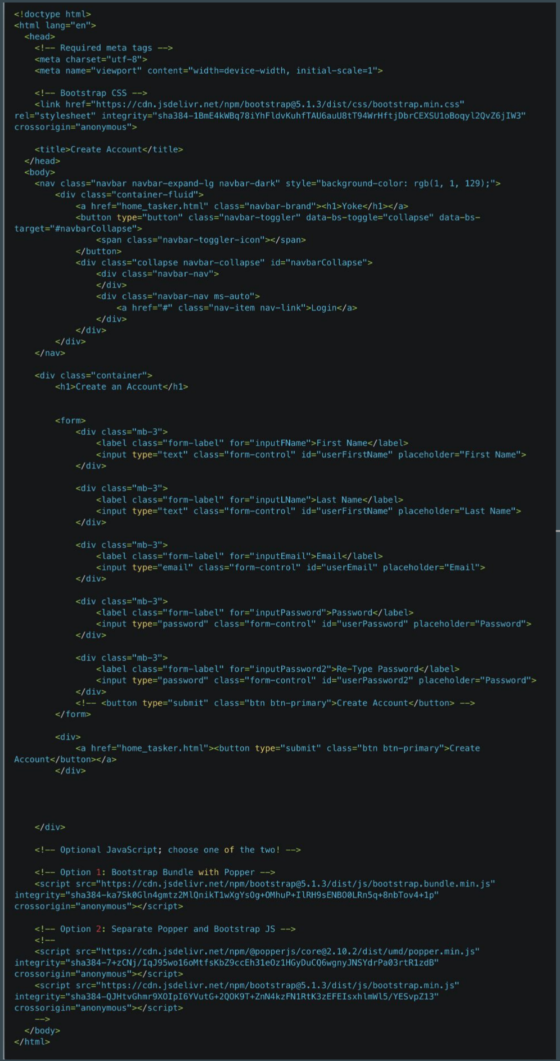
Yoke

Labor-Employment Administration App designed by (Group 8):
Michael Childs (Back-End, Documentation)
Brian Mathews (Front-End, QoL)
Jasper Swensen (Full-Stack, Testing)

Yoke Overview

Yoke is an app for property-managers (known hereafter as “Taskers”) to employ freelance laborers (known hereafter as “Workers”) for various tasks and projects on local properties. Yoke is both desktop and mobile compatible and employs a payment system to accompany the seamless task-creation and queuing system. Team 8 worked together to make various design decisions with respect to the app’s development. Each member’s strengths were utilized to the fullest- Brian focused on front-end development, such as CSS optimization and general Bootstrap page-template design. Jasper concentrated on full-stack production, designing a refined database schema for Django while also supporting front-end functionality and services. Michael took charge of maintaining the project’s documentation, appointment as primary Scrum-Master, and back-end implementation assistance to Jasper.

Code Progression



```html
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- Bootstrap CSS -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3"
crossorigin="anonymous">

    <title>Create Account</title>
  </head>
  <body>
    <nav class="navbar navbar-expand-lg navbar-dark" style="background-color: rgb(1, 1, 129);">
        <div class="container-fluid">
            <a href="home_tasker.html" class="navbar-brand"><h1>Yoke</h1></a>
            <button type="button" class="navbar-toggler" data-bs-toggle="collapse" data-bs-
target="#navbarCollapse">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarCollapse">
                <div class="navbar-nav">
                </div>
                <div class="navbar-nav ms-auto">
                    <a href="#" class="nav-item nav-link">Login</a>
                </div>
            </div>
        </div>
    </nav>

    <div class="container">
        <h1>Create an Account</h1>


        <form>
            <div class="mb-3">
                <label class="form-label" for="inputFName">First Name</label>
                <input type="text" class="form-control" id="userFirstName" placeholder="First Name">
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputLName">Last Name</label>
                <input type="text" class="form-control" id="userFirstName" placeholder="Last Name">
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputEmail">Email</label>
                <input type="email" class="form-control" id="userEmail" placeholder="Email">
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputPassword">Password</label>
                <input type="password" class="form-control" id="userPassword" placeholder="Password">
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputPassword2">Re-Type Password</label>
                <input type="password" class="form-control" id="userPassword2" placeholder="Password">
            </div>
            <!-- <button type="submit" class="btn btn-primary">Create Account</button> -->
        </form>

        <div>
            <a href="home_tasker.html"><button type="submit" class="btn btn-primary">Create
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        </div>




    </div>

    <!-- Optional JavaScript; choose one of the two! -->

    <!-- Option 1: Bootstrap Bundle with Popper -->
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"
integrity="sha384-ka7Sk0Gln4gmtz2MlQnikT1wXgYsOg+OMhuP+IlRH9sENBO0LRn5q+8nbTov4+1p"
crossorigin="anonymous"></script>

    <!-- Option 2: Separate Popper and Bootstrap JS -->
    <!--
    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.2/dist/umd/popper.min.js"
integrity="sha384-7+zCNj/IqJ95wo16oMtfsKbZ9ccEh31eOz1HGyDuCQ6wgnyJNSYdrPa03rtR1zdB"
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integrity="sha384-QJHtvGhmr9XOIpI6YVutG+2QOK9T+ZnN4kzFN1RtK3zEFEIsxhlmWl5/YESvpZ13"
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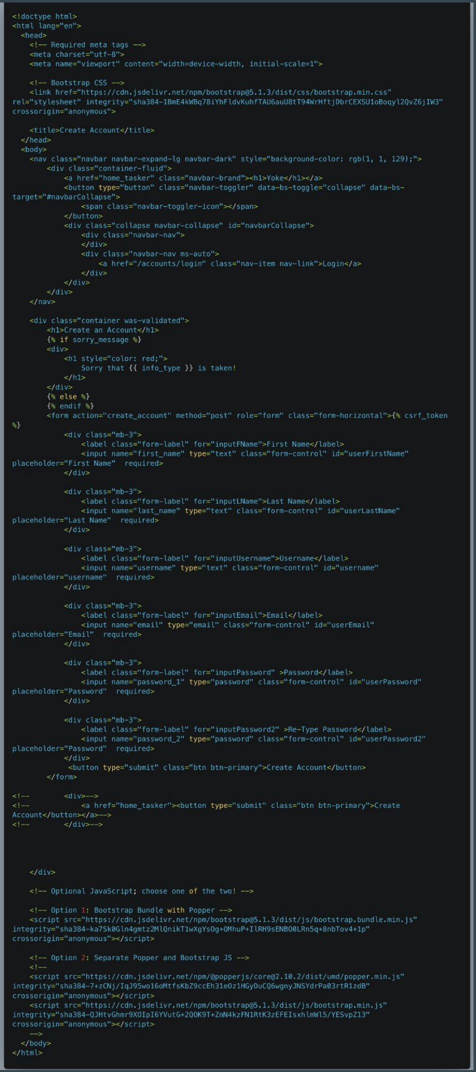
    -->
  </body>
</html>
```



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    <title>Create Account</title>
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  <body>
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        <div class="container-fluid">
            <a href="home_tasker" class="navbar-brand"><h1>Yoke</h1></a>
            <button type="button" class="navbar-toggler" data-bs-toggle="collapse" data-bs-
target="#navbarCollapse">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarCollapse">
                <div class="navbar-nav">
                </div>
                <div class="navbar-nav ms-auto">
                    <a href="/accounts/login" class="nav-item nav-link">Login</a>
                </div>
            </div>
        </div>
    </nav>

    <div class="container was-validated">
        <h1>Create an Account</h1>
        {% if sorry_message %}
        <div>
            <h1 style="color: red;">
                Sorry that {{ info_type }} is taken!
            </h1>
        </div>
        {% else %}
        {% endif %}
        <form action="create_account" method="post" role="form" class="form-horizontal">{% csrf_token
%}
            <div class="mb-3">
                <label class="form-label" for="inputFName">First Name</label>
                <input name="first_name" type="text" class="form-control" id="userFirstName"
placeholder="First Name"  required>
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputLName">Last Name</label>
                <input name="last_name" type="text" class="form-control" id="userLastName"
placeholder="Last Name"  required>
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputUsername">Username</label>
                <input name="username" type="text" class="form-control" id="username"
placeholder="username"  required>
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputEmail">Email</label>
                <input name="email" type="email" class="form-control" id="userEmail"
placeholder="Email"  required>
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputPassword" >Password</label>
                <input name="password_1" type="password" class="form-control" id="userPassword"
placeholder="Password"  required>
            </div>

            <div class="mb-3">
                <label class="form-label" for="inputPassword2" >Re-Type Password</label>
                <input name="password_2" type="password" class="form-control" id="userPassword2"
placeholder="Password"  required>
            </div>
             <button type="submit" class="btn btn-primary">Create Account</button>
        </form>

<!--        <div>-->
<!--            <a href="home_tasker"><button type="submit" class="btn btn-primary">Create
Account</button></a>-->
<!--        </div>-->




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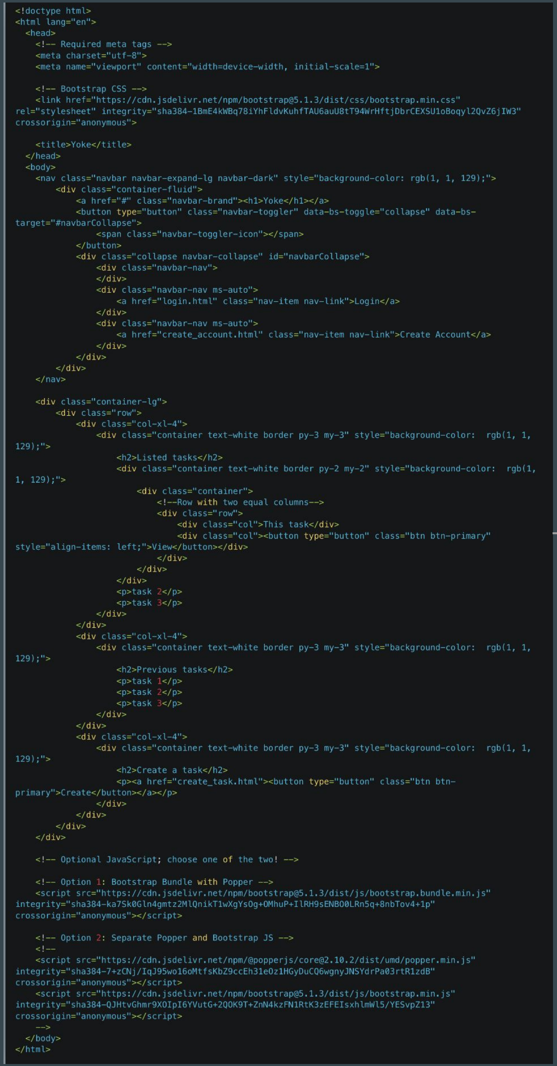

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  </head>
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                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="navbarCollapse">
                <div class="navbar-nav">
                </div>
                <div class="navbar-nav ms-auto">
                    <a href="login.html" class="nav-item nav-link">Login</a>
                </div>
                <div class="navbar-nav ms-auto">
                    <a href="create_account.html" class="nav-item nav-link">Create Account</a>
                </div>
            </div>
        </div>
    </nav>

    <div class="container-lg">
        <div class="row">
            <div class="col-xl-4">
                <div class="container text-white border py-3 my-3" style="background-color:  rgb(1, 1,
129);">
                    <h2>Listed tasks</h2>
                    <div class="container text-white border py-2 my-2" style="background-color:  rgb(1,
1, 129);">
                        <div class="container">
                            <!--Row with two equal columns-->
                            <div class="row">
                                <div class="col">This task</div>
                                <div class="col"><button type="button" class="btn btn-primary"
style="align-items: left;">View</button></div>
                            </div>
                        </div>
                    </div>
                    <p>task 2</p>
                    <p>task 3</p>
                </div>
            </div>
            <div class="col-xl-4">
                <div class="container text-white border py-3 my-3" style="background-color:  rgb(1, 1,
129);">
                    <h2>Previous tasks</h2>
                    <p>task 1</p>
                    <p>task 2</p>
                    <p>task 3</p>
                </div>
            </div>
            <div class="col-xl-4">
                <div class="container text-white border py-3 my-3" style="background-color:  rgb(1, 1,
129);">
                    <h2>Create a task</h2>
                    <p><a href="create_task.html"><button type="button" class="btn btn-
primary">Create</button></a></p>
                </div>
            </div>
        </div>
    </div>

    <!-- Optional JavaScript; choose one of the two! -->

    <!-- Option 1: Bootstrap Bundle with Popper -->
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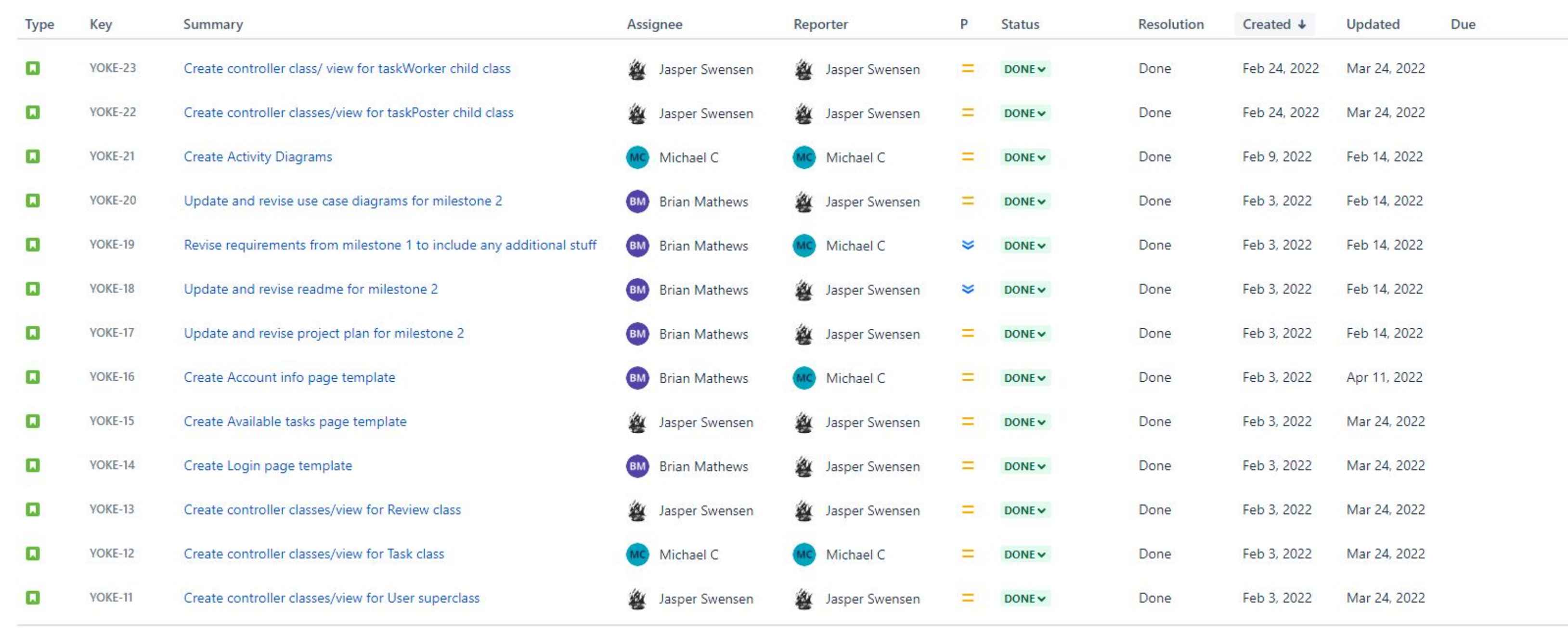
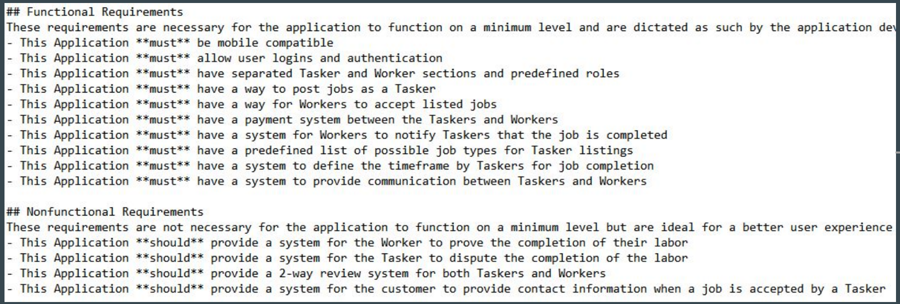
crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.min.js"
integrity="sha384-QJHtvGhmr9XOIpI6YVutG+2QOK9T+ZnN4kzFN1RtK3zEFEIsxhlmWl5/YESvpZ13"
crossorigin="anonymous"></script>
    -->
  </body>
</html>
```

Code Progression Itemization



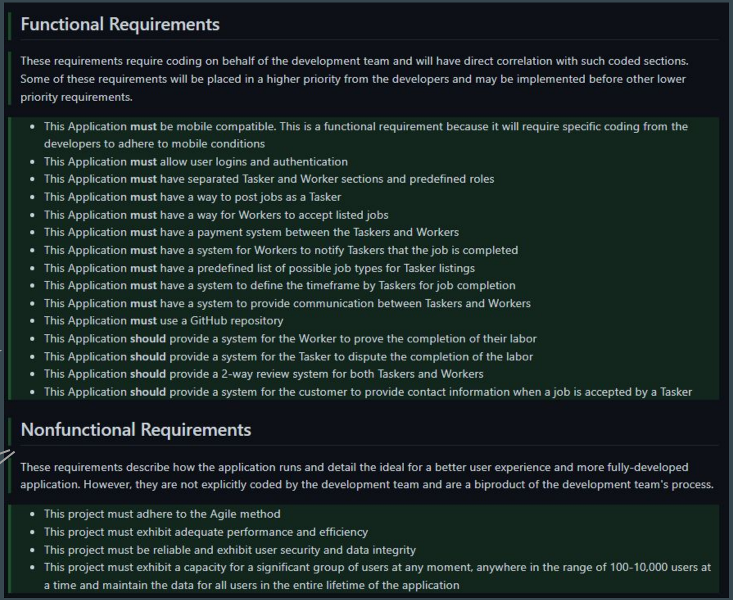
Type	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created ↓	Updated	Due
🟩	YOKE-23	Create controller class/ view for taskWorker child class	Jasper Swensen	Jasper Swensen	=	DONE	Done	Feb 24, 2022	Mar 24, 2022	
🟩	YOKE-22	Create controller classes/view for taskPoster child class	Jasper Swensen	Jasper Swensen	=	DONE	Done	Feb 24, 2022	Mar 24, 2022	
🟩	YOKE-21	Create Activity Diagrams	MC Michael C	MC Michael C	=	DONE	Done	Feb 9, 2022	Feb 14, 2022	
🟩	YOKE-20	Update and revise use case diagrams for milestone 2	BM Brian Mathews	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Feb 14, 2022	
🟩	YOKE-19	Revise requirements from milestone 1 to include any additional stuff	BM Brian Mathews	MC Michael C	︾	DONE	Done	Feb 3, 2022	Feb 14, 2022	
🟩	YOKE-18	Update and revise readme for milestone 2	BM Brian Mathews	Jasper Swensen	︾	DONE	Done	Feb 3, 2022	Feb 14, 2022	
🟩	YOKE-17	Update and revise project plan for milestone 2	BM Brian Mathews	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Feb 14, 2022	
🟩	YOKE-16	Create Account info page template	BM Brian Mathews	MC Michael C	=	DONE	Done	Feb 3, 2022	Apr 11, 2022	
🟩	YOKE-15	Create Available tasks page template	Jasper Swensen	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Mar 24, 2022	
🟩	YOKE-14	Create Login page template	BM Brian Mathews	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Mar 24, 2022	
🟩	YOKE-13	Create controller classes/view for Review class	Jasper Swensen	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Mar 24, 2022	
🟩	YOKE-12	Create controller classes/view for Task class	MC Michael C	MC Michael C	=	DONE	Done	Feb 3, 2022	Mar 24, 2022	
🟩	YOKE-11	Create controller classes/view for User superclass	Jasper Swensen	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Mar 24, 2022	

Requirements Progression



```
## Functional Requirements
These requirements are necessary for the application to function on a minimum level and are dictated as such by the application dev
- This Application **must** be mobile compatible
- This Application **must** allow user logins and authentication
- This Application **must** have separated Tasker and Worker sections and predefined roles
- This Application **must** have a way to post jobs as a Tasker
- This Application **must** have a way for Workers to accept listed jobs
- This Application **must** have a payment system between the Taskers and Workers
- This Application **must** have a system for Workers to notify Taskers that the job is completed
- This Application **must** have a predefined list of possible job types for Tasker listings
- This Application **must** have a system to define the timeframe by Taskers for job completion
- This Application **must** have a system to provide communication between Taskers and Workers

## Nonfunctional Requirements
These requirements are not necessary for the application to function on a minimum level but are ideal for a better user experience
- This Application **should** provide a system for the Worker to prove the completion of their labor
- This Application **should** provide a system for the Tasker to dispute the completion of the labor
- This Application **should** provide a 2-way review system for both Taskers and Workers
- This Application **should** provide a system for the customer to provide contact information when a job is accepted by a Tasker
```



Functional Requirements

These requirements require coding on behalf of the development team and will have direct correlation with such coded sections. Some of these requirements will be placed in a higher priority from the developers and may be implemented before other lower priority requirements.

- This Application **must** be mobile compatible. This is a functional requirement because it will require specific coding from the developers to adhere to mobile conditions
- This Application **must** allow user logins and authentication
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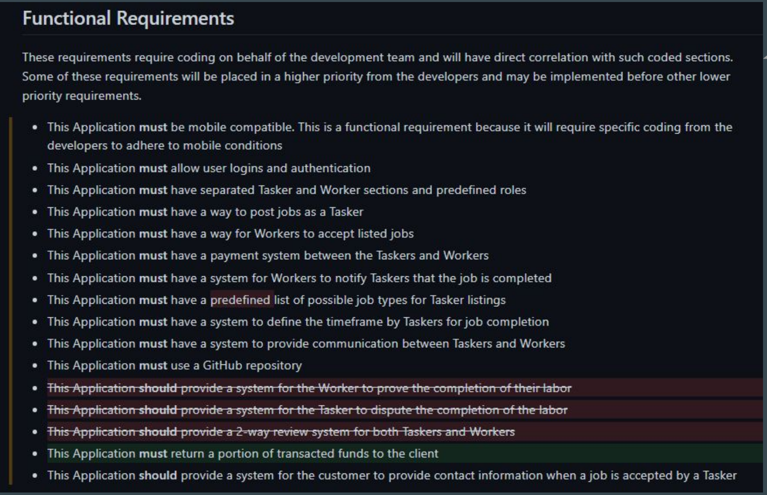
- This Application **must** have a way for Workers to accept listed jobs
- This Application **must** have a payment system between the Taskers and Workers
- This Application **must** have a system for Workers to notify Taskers that the job is completed
- This Application **must** have a predefined list of possible job types for Tasker listings
- This Application **must** have a system to define the timeframe by Taskers for job completion
- This Application **must** have a system to provide communication between Taskers and Workers
- This Application **must** use a GitHub repository
- This Application **should** provide a system for the Worker to prove the completion of their labor
- This Application **should** provide a system for the Tasker to dispute the completion of the labor
- This Application **should** provide a 2-way review system for both Taskers and Workers
- This Application **should** provide a system for the customer to provide contact information when a job is accepted by a Tasker

Nonfunctional Requirements

These requirements describe how the application runs and detail the ideal for a better user experience and more fully-developed application. However, they are not explicitly coded by the development team and are a biproduct of the development team's process.

- This project must adhere to the Agile method
- This project must exhibit adequate performance and efficiency
- This project must be reliable and exhibit user security and data integrity
- This project must exhibit a capacity for a significant group of users at any moment, anywhere in the range of 100-10,000 users at a time and maintain the data for all users in the entire lifetime of the application



Functional Requirements

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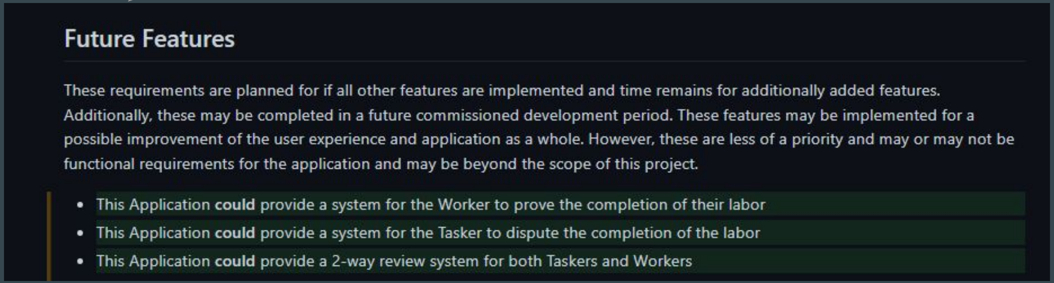
- This Application **must** have a system to define the timeframe by Taskers for job completion
- This Application **must** have a system to provide communication between Taskers and Workers
- This Application **must** use a GitHub repository
- ~~This Application **should** provide a system for the Worker to prove the completion of their labor~~
- ~~This Application **should** provide a system for the Tasker to dispute the completion of the labor~~
- ~~This Application **should** provide a 2-way review system for both Taskers and Workers~~
- This Application **must** return a portion of transacted funds to the client
- This Application **should** provide a system for the customer to provide contact information when a job is accepted by a Tasker

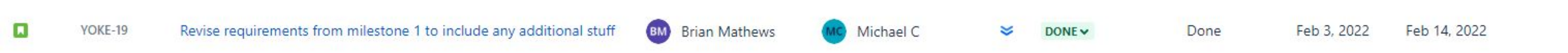


Future Features

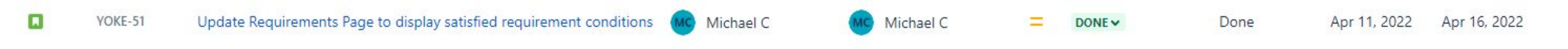
These requirements are planned for if all other features are implemented and time remains for additionally added features. Additionally, these may be completed in a future commissioned development period. These features may be implemented for a possible improvement of the user experience and application as a whole. However, these are less of a priority and may or may not be functional requirements for the application and may be beyond the scope of this project.

- This Application **could** provide a system for the Worker to prove the completion of their labor
- This Application **could** provide a system for the Tasker to dispute the completion of the labor
- This Application **could** provide a 2-way review system for both Taskers and Workers

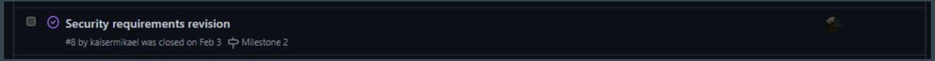
Requirements Progression Itemization



🟩	YOKE-19	Revise requirements from milestone 1 to include any additional stuff	BM Brian Mathews	MC Michael C	︾	DONE ⌄	Done	Feb 3, 2022	Feb 14, 2022

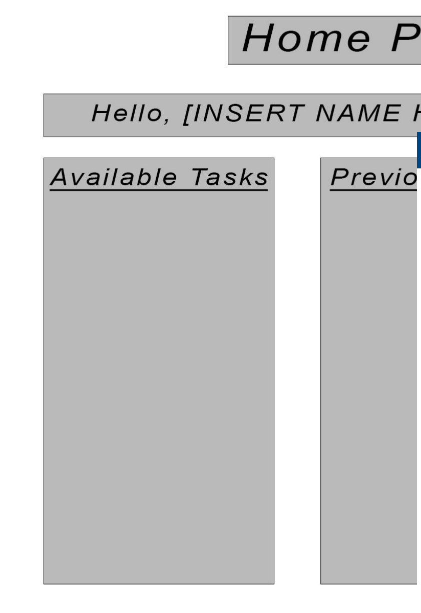


🟩	YOKE-51	Update Requirements Page to display satisfied requirement conditions	MC Michael C	MC Michael C	=	DONE ⌄	Done	Apr 11, 2022	Apr 16, 2022



□ ✓ **Security requirements revision**
#8 by kaisermikael was closed on Feb 3 Milestone 2

Prototype Progression



Home Page

Account

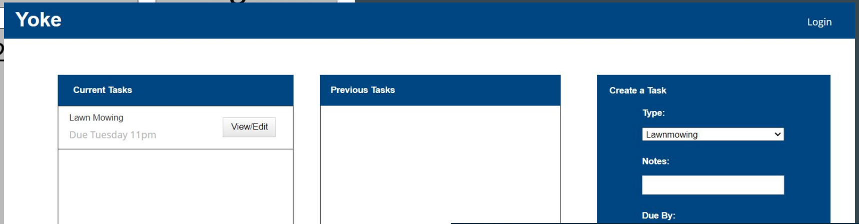
Hello, [INSERT NAME HERE]

Logout

Available Tasks

Previo

Low Fidelity



Yoke

Login

Current Tasks

Lawn Mowing

Due Tuesday 11pm

View/Edit

Previous Tasks

Create a Task

Type:

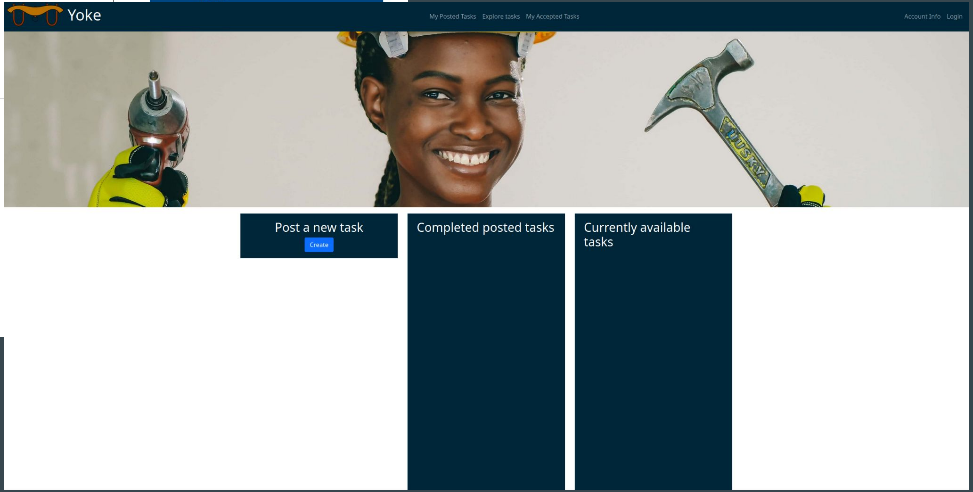
Lawnmowing

Notes:

Due By:

High Fidelity

Final Product



Yoke

My Posted Tasks

Explore tasks

My Accepted Tasks

Account Info

Login

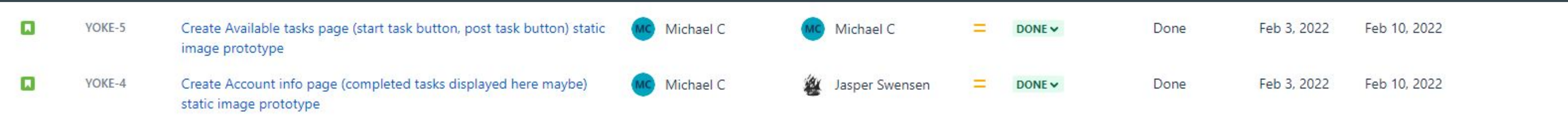
Post a new task

Create

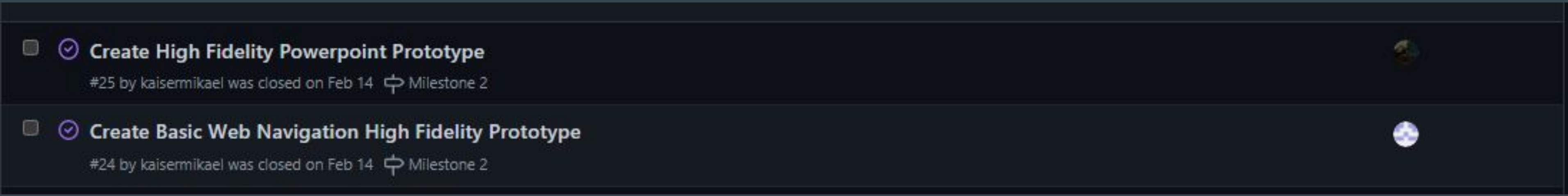
Completed posted tasks

Currently available tasks

Prototype Progression Itemization



YOKE-5	Create Available tasks page (start task button, post task button) static image prototype	Michael C	Michael C	=	DONE	Done	Feb 3, 2022	Feb 10, 2022
YOKE-4	Create Account info page (completed tasks displayed here maybe) static image prototype	Michael C	Jasper Swensen	=	DONE	Done	Feb 3, 2022	Feb 10, 2022



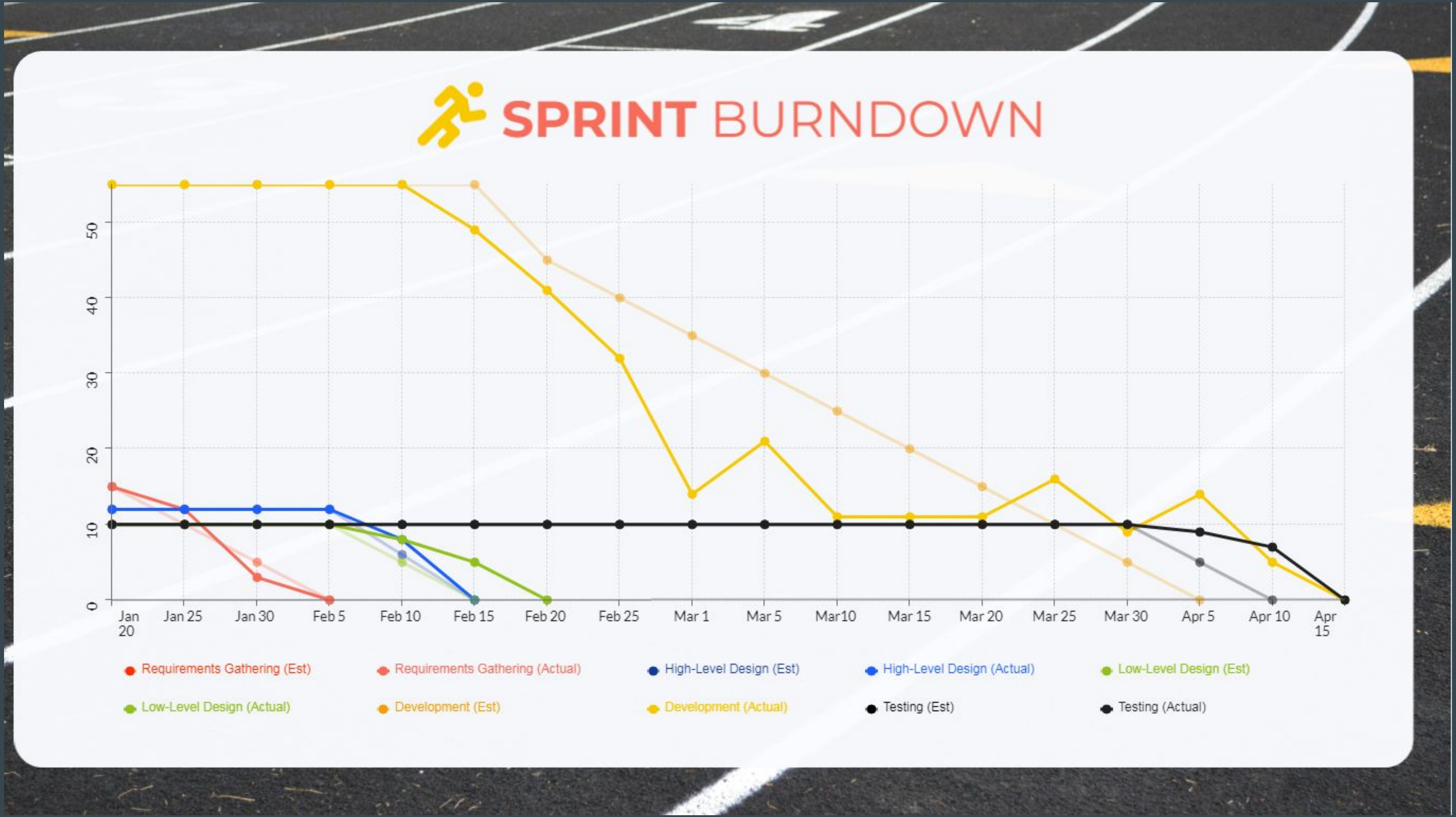
□ **Create High Fidelity Powerpoint Prototype**

#25 by kaisermikael was closed on Feb 14 Milestone 2

□ **Create Basic Web Navigation High Fidelity Prototype**

#24 by kaisermikael was closed on Feb 14 Milestone 2

Project Burndown Chart



Resources

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- Mark Otto, J. T. (n.d.). *Introduction to Bootstrap*. · Bootstrap. Retrieved March 3, 2022, from https://getbootstrap.com/docs/4.1/getting-started/introduction/
- *Django bootstrap: An essential framework to beat your competitors!* DataFlair. (2021, June 21). Retrieved February 26, 2022, from https://data-flair.training/blogs/django-bootstrap/
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Questions?