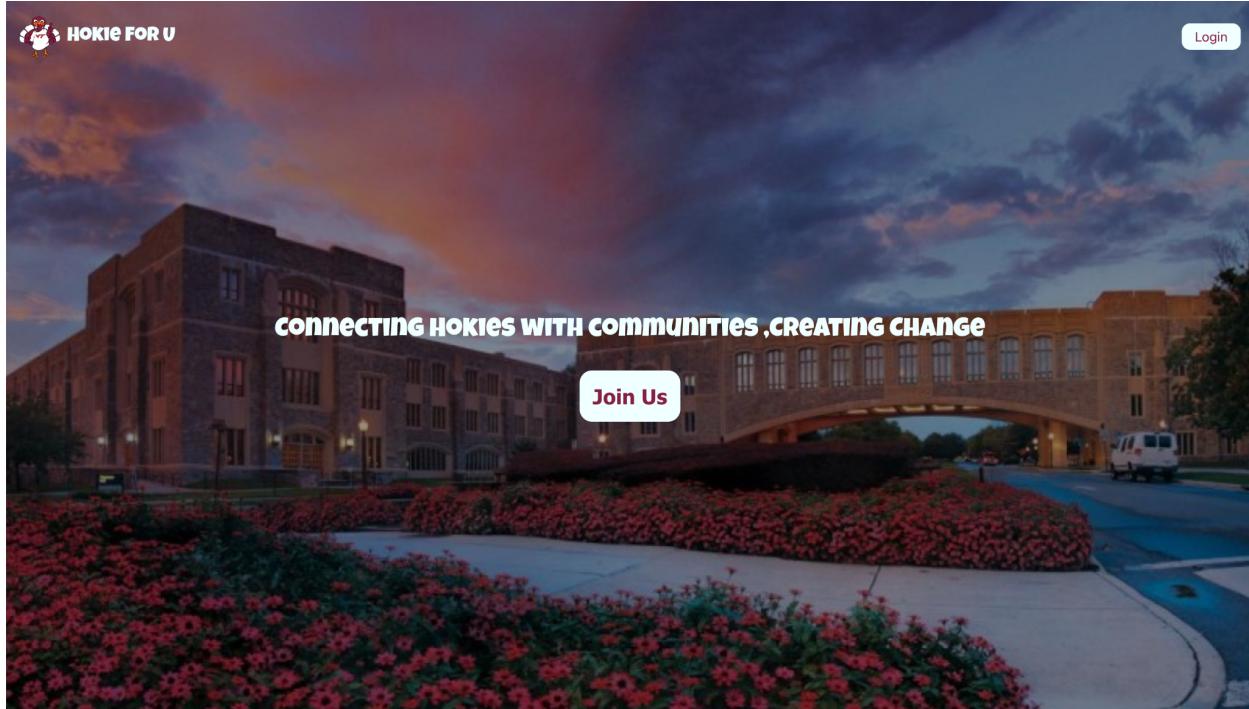


Deliverable Sprint 1

Demo Working Product System

Home Page:



The three images presented above depict the central hub of the application, which is the homepage. This page serves as the virtual gateway to the application, encapsulating its primary mission and offering insight into the core functionalities it provides. On this homepage, you'll find compelling stories that narrate how this product has positively impacted not only individuals but also the communities it serves. These real-life anecdotes vividly illustrate the practical significance of the application, shedding light on the tangible benefits it brings to people's lives. This storytelling element not only informs users about the application's capabilities but also fosters a sense of connection and trust, showing that it has already made a difference in various ways.

In addition to the impactful stories, the homepage features quick links to the application's social media profiles like Facebook, Twitter, Instagram, and LinkedIn, making it easy for users to stay connected and engaged. These links facilitate social interaction and keep the user community informed about updates, news, and events.

related to the application. Moreover, users can seamlessly access the application by either logging in if they are existing users or registering if they are new to the platform. The inclusion of these login and registration options on the homepage ensures a user-friendly experience and demonstrates the application's commitment to being accessible to a broad audience. To further enhance user engagement and support, contact information in the form of a phone number and email address is readily available, enabling users to reach out for assistance or inquiries.



Login



I was impressed by how quickly I found a local job that matched my needs and schedule on this platform. The convenience and the satisfaction of a job well done make this site a go-to for Virginia Tech students!"

- Delighted VT Student



"I needed help with household chores, and this website connected me with a responsible and hardworking Virginia Tech student. The service exceeded my expectations, and I couldn't be happier!"

- Ecstatic Local Resident



Login



I found the perfect help for a small field work in my vegetable garden on this site. Posting a job was a breeze, and the student who helped me did an excellent job. I'm highly satisfied!"

- Happy Local Resident

Contact Us

Phone Number : +1 540558XXXX
Email : hokieforu@gmail.com

Get Help

FAQ
Support

Related Links

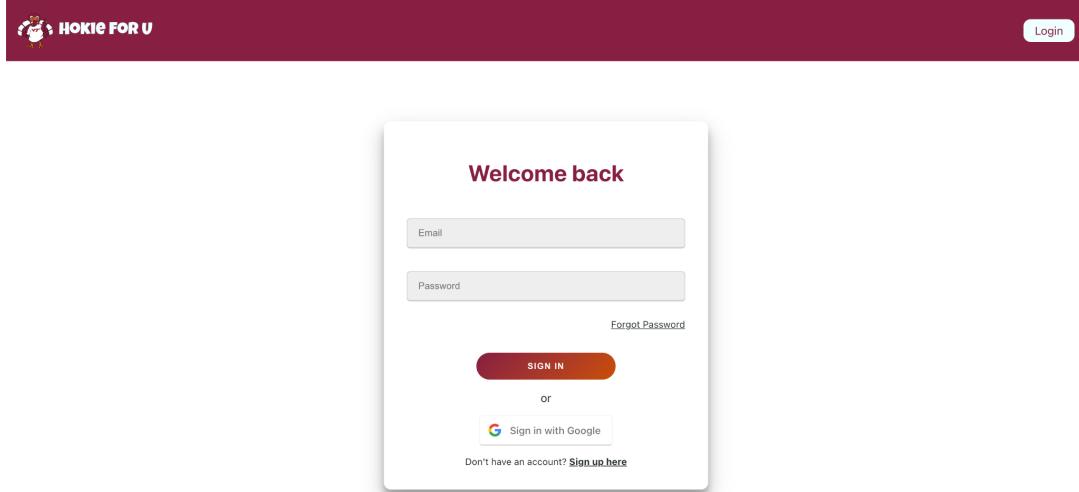
Home
Register
Login

Follow Us

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f t i n

Login Page:



Our application has distinct pages for both login and registration, each serving its unique purpose. The login page is designed to offer existing users a secure and straightforward means of accessing their accounts. On this page, users enter their registered credentials, including email or username and password. Furthermore, we've implemented an additional feature that allows users to reset their password in case they forget it. This provides a safety net for users who may encounter login issues, ensuring a smooth and frustration-free experience.

Registration Page:

The registration page, on the other hand, is geared towards individuals who are new to the application and wish to create an account. During the registration process, users provide essential information such as their email, username, and a password of their choice. This page is the gateway to joining our user community and benefiting from the features and services the application has to offer. Additionally, users have the convenience of registering or signing in with their Google accounts, streamlining the process and enhancing user-friendliness. By keeping these pages separate, we maintain clarity and ease of use for both new and returning users, ensuring a positive experience at every stage of their interaction with our application.



Post a Job Form Page:



The screenshot shows the 'Compose a Job' page. At the top right are links for Notifications, My Jobs, My Profile, and Logout. The main title is 'Compose a Job'. Below it is a 'Job Title' field with a placeholder 'Enter job title'. To its right is a rich text editor toolbar. Below the toolbar is a 'Job Description' text area with a placeholder 'Enter Job Description'. Further down are sections for 'Contact Details' (with a 'Enter Phone Number' field), 'Job Location' (with a 'Enter Job Location' field), and 'Job Pay' (with a 'Enter Job Pay' field). On the left side of the form, there is a decorative illustration of four hands of different skin tones holding interlocking puzzle pieces in red, orange, green, and blue.

Our application features a "Post a Job" page with a user-friendly form for job listings. This form includes fields for title, description, date, pay, and location, providing essential

job details. When submitted, the data is securely stored in our database, streamlining the job posting process and making it easier for both job posters and job seekers to manage listings and find suitable opportunities. This page serves as a key feature, supporting efficient data management for a seamless user experience.

Database:

The screenshot shows the MongoDB Atlas web interface. On the left, there's a sidebar with various project management and service links. The main area is titled 'Data Services' and shows one database named 'hokieforu' with one collection 'users'. The 'Find' section is active, displaying two document results. Each result includes fields like '_id', 'firstName', 'lastName', 'email', 'profilePicture', and timestamped 'createdAt' and 'updatedAt' fields. The interface is clean with green and grey branding.

```

_id: ObjectId('65316fea0816053f5efed55b')
firstName: "Akshay Reddy"
lastName: "Narra"
email: "██████████"
profilePicture: "https://lh3.googleusercontent.com/a/ACg8ocL5g58087c0ckioDB6QeoOK2_1hoA_"
createdAt: 2023-10-19T18:05:30.252+00:00
updatedAt: 2023-10-19T18:05:30.252+00:00
__v: 0

_id: ObjectId('65317538411203fe9dd6c60e')
firstName: "Sanhitha"
lastName: "Pentaparthi"
email: "██████████"
phoneNumber: "██████████"
password: "$2a$12$XOBf0LkxBn52Aj3pYq.0U.kvHQxCQW/j3MgnJBvNfaQytuYZI4.ke"
createdAt: 2023-10-19T18:28:00.422+00:00
updatedAt: 2023-10-20T04:26:34.045+00:00
__v: 0

```

Our database infrastructure is built on MongoDB Server, providing a streamlined and user-friendly data management experience for our team. Each data entry is timestamped, allowing us to track the temporal aspects of our data. User password security is a priority, with passwords hashed before storage, enhancing data protection. Notably, we only store passwords for users who manually register; users signing in with Google accounts are authenticated via Google's services, eliminating the need for password storage, thus bolstering overall security. These practices ensure data integrity and efficient data management in our application.

Collaboration Spaces

Our team leverages three crucial tools - GitHub, JIRA, and Confluence - to amplify our productivity and streamline project management and software development processes.

Jira

The screenshot shows the Jira Backlog view for the 'HokieForYou' project. On the left, a sidebar navigation includes 'PLANNING' (Timeline, Backlog, Board, Reports, Issues), 'DEVELOPMENT' (Code, Security, Releases), 'OPERATIONS' (Deployments, On-call), and 'Project pages'. The main area displays the 'Backlog' under 'HOK Sprint 1' (9 Oct – 23 Oct). It lists nine tasks: 'HOK-12 Develop a basic layout webpage for home page', 'HOK-2 Create a database schema for user profiles, job postings etc.', 'HOK-11 Develop front end web pages for login and registration.', 'HOK-4 Implement user registration and login functionality using secure authentication methods.', 'HOK-13 Develop a component inside the webpage to allow user to update the profile', 'HOK-14 Develop a component inside the webpage to allow users to post a job', 'HOK-27 Login - Password hash', 'HOK-32 Login, Register - Mobile view', and 'HOK-35 Existing user - Register'. Statuses range from 'DONE' to 'TO DO'. A 'Create issue' button is at the bottom. Below the backlog are summaries for 'HOK Sprint 2' (24 Oct – 6 Nov), 'HOK Sprint 3' (5 Nov – 19 Nov), and 'HOK Sprint 4' (11 Nov – 25 Nov).

The screenshot shows the Jira Board view for 'HOK Sprint 1'. The sidebar is identical to the previous screen. The board has four columns: 'TO DO 1', 'IN PROGRESS', 'TESTING', and 'DONE 21'. Under 'TO DO 1', there is one task: 'HOK-14 Develop a component inside the webpage to allow users to post a job' (2 subtasks, DONE, AN). In the 'DONE' column, two sub-tasks are visible: 'Front End Dev - Post a Job' (HOK-37) and 'Basic UI Testing' (HOK-36). The 'IN PROGRESS' and 'TESTING' columns are currently empty. A '+' icon is in the top right corner of the board area.

JIRA, a cornerstone of our Agile methodologies, empowers us to manage our projects using Scrum boards, allowing for the efficient prioritization of tasks and incremental improvements. Custom workflows tailored to our unique processes ensure the smooth

progression of work, eliminating bottlenecks. Issue tracking capabilities expedite the resolution of bugs and tasks, contributing to improved productivity. Additionally, customizable reporting and dashboards provide insights crucial for decision-making and resource allocation.

GitHub

The screenshot shows a GitHub repository page for 'hokie-for-u'. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Security, and Insights. Below the navigation is a search bar and several repository stats: Watch 1, Fork 0, Star 0. The main content area has tabs for Code, Issues, Pull requests, Actions, Projects, Security, and Insights. The 'Code' tab is selected, showing a list of branches and tags. A dropdown menu for 'dev' is open, showing 'behind main.' and a 'Find or create a branch...' input field. The 'Branches' tab is active, listing 'main' (default), 'Test-Sushma', and 'dev'. The 'Tags' tab is inactive. The 'dev' branch is expanded, showing commits from 'sivakumarreddy07/dev-akshay' dated 'yesterday' with '13 commits'. Other commits listed include 'Added Phase 2 Document' (3 weeks ago), 'Fixed bugs for login functionality and added code for Forgot password...' (4 days ago), 'Updated server.js' (3 days ago), 'Fixed bugs for login functionality and added code for Forgot password...' (4 days ago), and 'Added code for Login and Register functionality' (5 days ago). A 'View all branches' link is at the bottom of the branches list. On the right side of the page, there are sections for 'About', 'Releases', 'Packages', and 'Contributors'. The 'About' section describes it as a 'Job posting application' with a 'Readme', 'Activity', '0 stars', '1 watching', and '0 forks'. The 'Releases' section shows 'No releases published' and a 'Create a new release' link. The 'Packages' section indicates 'No packages published' and a 'Publish your first package' link. The 'Contributors' section lists three contributors: 'sivakumarreddy07' (3 contributions) and 'Akshay-06 Akshay Narra'.

In GitHub, we embrace a collaborative approach by having each team member create their individual branches where they work on specific tasks or features. This strategy allows us to maintain a clear and organized codebase, reducing the likelihood of conflicts and errors. Once our work on these branches is complete, we employ the process of merging, incorporating our changes and improvements into the main branch. This workflow aligns with the principles of version control, enhancing code quality and accelerating our development process. Additionally, we capitalize on GitHub's versatile features, including pull requests and automated workflows via GitHub Actions, which not only streamline collaboration but also contribute to the overall efficiency of our development efforts. The project management functionalities, such as issue tracking, are instrumental in keeping our team organized and fully focused on the attainment of our project goals.

Confluence

The screenshot shows a Confluence project page titled 'Deliverable Phase 1' under the 'HokieForYou' space. The left sidebar contains navigation links like 'All content', 'Blogs', 'Automation', 'Space settings', 'Shortcuts', and 'Content'. Under 'Content', 'Deliverable Phase 1' is selected. The main content area displays the project name 'Project name - Hokie For U' and a section titled 'Problem statement and brief project description'. It includes a 'Problem Statement' section describing the need for accessible services and a 'Project Description' section detailing the application's purpose for connecting hokies with neighborhood communities.

Confluence, our collaborative documentation platform, plays a pivotal role in facilitating knowledge sharing and document management. By creating and sharing project documentation, knowledge bases, and wikis, we ensure that all team members have access to up-to-date information. Real-time collaborative features in Confluence simplify document creation, allowing our teams to work efficiently. The integration with JIRA further ensures that our project documentation aligns seamlessly with project progress, thus keeping documentation current and aligned with the project's status.

Scrum

Sprint 1 Backlog

User Story-1:

As a website visitor, I want to see an engaging and informative homepage so that I can quickly understand the purpose and offerings of the website.

Task	Hours
------	-------

FrontEnd - Development	4h
Front End - UI Testing	0.25h

User Story-2:

As a user, I want to be able to access and use a web application, so I need a login and registration interface to create a new account or log in to an existing one.

<i>Task</i>	<i>Hours</i>
FrontEnd - Login	3h
FrontEnd - Register	3h
Front End - Unit Testing	0.25h
FrontEnd - Test - Login	0.25
FrontEnd - Test - Register	0.25h
FrontEnd - Login	3h

User Story-3:

As a user, I want to register and login securely using authentication methods.

<i>Task</i>	<i>Hours</i>
Dev - Login	6h
Dev - Register	6h
Dev - Forgot Password	6h
Unit Testing	1h
Testing - Login	2h
Testing - Forgot Password	1h
Testing - Register	3h

User Story-4:

As a product manager, I want a database schema for user profiles, including personal information and profile pictures.

Task	Hours
Dev - User Schema	2h
Dev - Job Schema	2h

User Story-5:

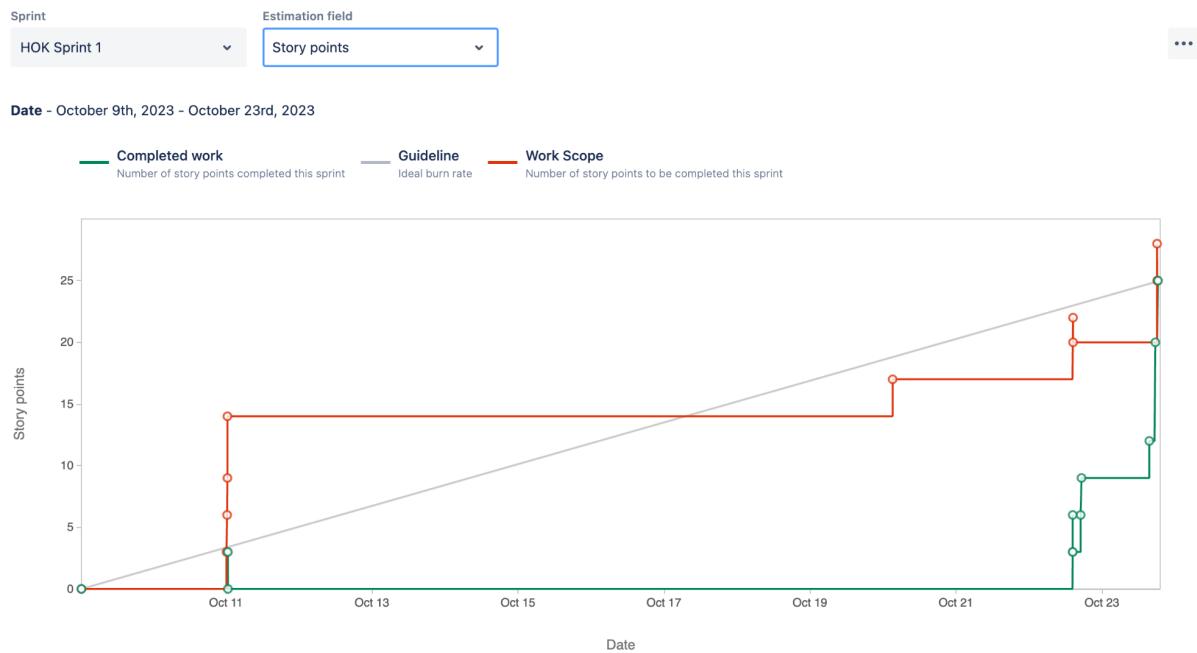
As a user, I want the ability to post service jobs and store their details in the system.

Task	Hours
FrontEnd Development	4h
FrontEnd Testing	0.5h

Sprint 1 Burndown chart



Fig 1: Sprint burndown chart(Story points vs Sprint dates)
The curve represents the Remaining work to be done

Cumulative flow diagram*Fig 2: Cumulative flow diagram(Issue count vs Time-Sprint dates)***Burnup report***Fig 3: Burnup Report(Story points vs Sprint dates)*

Sprint Retrospective

Accomplishments:

- Successfully completed the design and development of the homepage.
- Accomplished the front-end development for the login and registration pages.
- Backend development for the login and registration functionalities was successfully implemented.
- Designed the attributes and schema for the database.
- Achieved the front-end development for the "Post a Job" functionality.

Pending Work:

- Pending the completion of the backend development for the "Post a Job" functionality.

What Went Well:

- Significant progress was made in the front-end development, including key pages such as the homepage, login, registration, and "Post a Job" functionality.
- The establishment of a successful connection with the database and the design of the schema were completed without issues.
- No major obstacles were encountered, as the functionalities implemented were not overly complex.

Areas of Improvement:

- Improve the logging of work to maintain better transparency and track progress effectively.

Product Backlog

- Added a new user story to create an engaging and informative homepage for website visitors. This was successfully implemented during Sprint 1.
- Introduced a new user story to develop a feature that displays available job listings for users to browse and interact with.
- Added another user story for the creation of a user profile page. This will allow users to manage their personal information related to job profiles effectively.
- To enhance collaboration and tracking, we split the "Login/Register" user story into separate tasks for backend and frontend development.
- Reviewed and updated the priorities of the user stories to align with the project's evolving needs and objectives.

ID	User Story	Estimation	Priority
1.	As a user, I want to register and login securely using authentication methods.	8	1
2.	As a user, I want to be able to access and use a web application, so I need a login and registration interface to create a new account or log in to an existing one.	3	1
3.	As a website visitor, I want to see an engaging and informative homepage so that I can quickly understand the purpose and offerings of the website.	3	2
4.	As a product manager, I want a database schema for user profiles, including personal information and profile pictures.	3	3
5.	As a user, I want the ability to post service jobs and store their details in the system.	8	4
6.	As a user, I want to have a profile page where I can view and manage my personal information.	5	5
7.	As a product manager, I need a data model for service job postings, covering attributes like title, description, category, and location.	3	6
8.	As a user, I want to browse and view a list of available service jobs.	8	7
9.	As a user, I want to schedule service jobs, specifying date and time preferences.	13	7
10.	As a user, I want a user dashboard that provides an overview of my most recent and upcoming jobs.	8	8
11.	As a user, I want to receive notifications when a service job is booked or scheduled.	5	9
12.	As a user, I want to view a list of available service jobs based on my preferences and filters.	5	10

Issue tracking

We raised 3 bugs while testing the above user stories:

Issue 1 (User Story-1) : [Login, Register - Mobile view](#)

Look of the Login, Register page in Mobile does not look good

Issue 2 (User Story-2) : [Login - Password hash](#)

When user is registering, password is getting stored directly in the DB without hashing

Issue 3 (User Story- 1) : [Existing user - Register](#)

Already existing user with same email id is able to register into the application

<input checked="" type="checkbox"/> HOK-27 Login - Password hash	DONE	-	
<input checked="" type="checkbox"/> HOK-32 Login, Register - Mobile view	DONE	3	
<input checked="" type="checkbox"/> HOK-35 Existing user - Register	DONE	-	

Sprint 2 Backlog

The screenshot shows the Jira backlog for the project "HokieForYou". The backlog is organized into sprints:

- HOK Sprint 1** (9 Oct – 23 Oct): 8 issues. Status: Complete sprint. Issues include HOK-27, HOK-32, and HOK-35.
- HOK Sprint 2** (24 Oct – 6 Nov): 34 issues. Status: Start sprint. Issues include HOK-13, HOK-5, HOK-6, HOK-3, and HOK-40.
- HOK Sprint 3** (5 Nov – 19 Nov): 0 issues. Status: Start sprint.
- HOK Sprint 4** (11 Nov – 25 Nov): 0 issues. Status: Start sprint.
- HOK Sprint 5** (25 Nov – 9 Dec): 0 issues. Status: Start sprint.

At the bottom, it shows "5 issues | Estimate: 34".

Planned User Stories:

1. As a product manager, I need a data model for service job postings, covering attributes like title, description, category, and location.
2. As a user, I want to schedule service jobs, specifying date and time preferences.

Unimplemented User Stories from Sprint 1:

1. As a user, I want the ability to post service jobs and store their details in the system. (Backend Development)

New User Stories:

1. As a user, I want to have a profile page where I can view and manage my personal information.
2. As a user, I want to browse and view a list of available service jobs.