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An Internship Report

On

“WEB DEVELOPMENT”

Batch Details

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1. INTRODUCTION

UpToSkills offers a variety of educational and training options aimed at enhancing professional development. They provide workshops, online courses, and corporate training programs designed to help individuals and teams improve their skills in areas such as technology, management, and soft skills. With a mission to empower learners, UpToSkills connects participants with experienced instructors and engaging, hands-on learning experiences. The organization emphasizes innovation in training delivery by utilizing e-learning platforms and mobile learning options, catering to both individuals seeking career advancement and employers aiming to boost employee performance. Their partnerships with educational institutions and industry experts reflect their commitment to delivering high-quality education, ensuring that their programs are relevant and effective in today's competitive job market.

UpToSkills provides web development internships for aspiring developers to gain hands-on experience in a vibrant environment. Interns will work with technologies such as HTML, CSS, and JavaScript to assist in creating and managing web applications, collaborating with design and development teams to enhance user experience.

Initially, a clone of the official UpToSkills website was created using HTML and inline CSS. The second task involved developing a Human Resource Management System (HRMS) software. This enterprise software is designed to automate and streamline HR processes within an organization.

2.LITERATURE REVIEW

Task 1: UptoSkills Official Website

One of the best skill-development platforms in India is UptoSkills, which provides a range of services meant to improve students' skills. The website offers free courses, internships, and job opportunities to cater to a variety of professional interests. Additionally, it hosts hackathons and contests, promoting creativity and hands-on participation. The platform provides tailored services for academic institutions and corporate organizations to further connect academic learning with business goals.

The user layout of the UptoSkills website is simple to use, and users may peruse a variety of categories, such as job postings, internships, and courses. Links to the employer and candidate login sites are clearly visible on the homepage, making it easy for employers and job seekers to access them. The contact information includes phone numbers and email addresses.

UptoSkills Website Design Structure

Users can navigate the UptoSkills website with ease thanks to its structured design. Its main tools for creating a visually appealing and responsive interface are HTML, CSS, and JavaScript. Users may simply access a variety of resources thanks to the navigation bar in the website header, which links to important sections including Home, Courses, Internships, Jobs, and Hackathons. The call-to-action buttons in the hero section are prominent and inspire people to take advantage of the opportunity.

For styling, CSS is used, emphasizing spacing, readability, and color contrast. By offering dynamic features like form validation, drop-down menus, and animated components, JavaScript improves interactivity. The website was created with Bootstrap or a related CSS framework in order to be responsive to various screen sizes. To further enhance the user experience, external APIs or scripts are integrated for search functions, filtering options, and login authentication. Both recruiters and learners can benefit from the frontend's skillful balancing act between functionality and aesthetic appeal.

Limitations of website design of other educational platforms

1. Complex Navigation: For instance, Coursera has come into scrutiny for having a confusing navigation system that makes it difficult for users to locate particular courses or features because of the cluttered menus and connections.

Frustration and a bad user experience may result from this.

2. Overwhelming Layout: For instance, Udemy's site may seem overflowing with promotions and courses, which might overwhelm new users and make it challenging to concentrate on certain learning pathways.

A crowded layout might divert visitors' attention and make it more difficult for them to quickly locate pertinent material.

3. Limited Interactivity: For instance, Khan Academy mostly provides video-based information with few interactive features, which could not successfully engage all kinds of learners. Absence of interactive elements may result in passive learning experiences that lower engagement and retention.

4. Poor Mobile Optimization: For instance, some older educational platforms, like edX, have been criticized for their mobile interfaces, which are not as responsive or user-friendly as necessary for effective mobile learning.

In contrast to these common drawbacks found in other educational platforms, UptoSkills excels in website design by prioritizing user-friendly navigation, a clean and organized layout, engaging interactive features, and optimized mobile access.

Comparison of UptoSkills Website with Other Educational Platforms

1. Design & User Interface

UptoSkills features a clean and user-friendly design that streamlines the experience for users seeking jobs, internships, and courses. It includes distinct sections for both employers and students, complemented by an intuitive navigation bar that follows a conventional layout. In contrast, platforms like Coursera, Udemy, and edX leverage modern UI/UX principles, providing interactive dashboards, AI-driven course suggestions, and visually appealing designs. Their user interfaces are typically more advanced and feature-rich compared to UptoSkills.

2. Course Selection & Instructional Methods

UptoSkills focuses on offering free classes, internships, and hackathons, prioritizing job placement and practical skill development over traditional academic courses. Conversely, Coursera and edX provide university-level courses, including certifications from prestigious Ivy League institutions. Udemy operates as a marketplace, enabling anyone to create and sell their own courses.

3. Learning and Interactivity Features

While UptoSkills emphasizes practical learning through skill-based projects and internships, it lacks interactive elements such as peer discussions, quizzes, or AI-driven recommendations. In contrast, other platforms incorporate features that enhance engagement, such as discussion boards (available on Udemy), AI-guided learning paths (offered by LinkedIn Learning), and automatically graded assignments (found on Coursera and edX).

4. Accreditation & Recognition

Although UpToSkills provides valuable internships and hands-on experience, its certifications may not hold the same weight as those from specialized courses offered by Udemy, edX (including those from Harvard and MIT), or Coursera (which features certifications from Google, IBM, and Meta).

5. Pricing & Accessibility

UpToSkills stands out for its accessibility, offering internships and training at no cost. In comparison, Coursera and edX operate on subscription-based or university-affiliated paid models, while Udemy charges a one-time fee for its courses.

Task 2: Horilla HRMS Website

The Horilla website has a captivating, contemporary design that puts accessibility and user experience first. With its simple design and easy-to-use navigation, visitors may quickly browse through different areas such as community forums, resources, and courses. The website is made more aesthetically pleasing and user-friendly by the use of vivid colors and captivating images. Furthermore, Horilla incorporates interactive features like discussion boards and quizzes to encourage student participation and teamwork. All things considered, the design successfully strikes a balance between usability and beauty, offering users looking for educational resources a smooth experience.

A state-of-the-art web technology stack is used on the Horilla website to guarantee peak speed and user experience. Its front-end features include JavaScript for interactivity, HTML5 for content organization, and CSS3 for styling, which may be improved by frameworks like React, Angular, or Vue.js. As for the backend, databases like MongoDB or PostgreSQL manage user and course data, while technologies like Node.js and Express.js enable effective server-side development. It is likely that the platform uses GraphQL or RESTful APIs to facilitate smooth front-end-backend communication. In order to enhance loading speeds, Horilla also makes use of Content Delivery Networks (CDNs) and cloud services like AWS or Google Cloud. Continuous integration and deployment are supported by technologies like Jenkins or GitHub Actions.

Existing HRMS System Limitations

1. Lack of Integration: Employee management, onboarding, and recruitment are generally managed by distinct modules on many HRMS platforms, including BambooHR, which operate in silos. Due to disparities in data processing brought on by this lack of smooth connectivity, HR teams may encounter difficulties such as inconsistent data entry and duplicate data entry. The structure of the workforce and decision-making may be impacted, for example, if an employee's information is changed in the recruitment module but not in the onboarding module.

2. Manual Procedures: Creating offer letters, monitoring attendance, and granting leave requests are just a few of the crucial HR duties that sometimes depend on antiquated paper-based techniques or necessitate substantial human involvement. HR specialists could still need to manually enter attendance data into systems like ADP Workforce Now, for instance, which could cause delays and administrative strain. These procedures might be automated to increase

efficiency, reduce mistakes, and free up HR teams to concentrate on strategic projects rather than mundane duties.

3.Limited Engagement: The lack of integrated social features in many HRMS platforms, such as Workday, makes it difficult for employees to connect, share updates, and collaborate efficiently within the system. This lack of interactive communication tools can result in lower employee satisfaction, impede the sharing of knowledge, and lower morale, all of which can have an impact on organizational culture.

3. OBJECTIVES

- Accessible health-care to all patients in cities and small towns or villages.
- User-friendly system; no prior technical knowledge required.
- Assist healthcare providers diagnose acute diseases accurately based on patient symptoms using a simple user interface.
- Affordable medical diagnosis which can be accessed through internet connection on all electronic gadgets.

EXPERIMENTAL DETAILS/METHDOLOGY

Hardwares and Softwares used for Task 1:

1.Development Machines:

- Computers or laptops with sufficient processing power, RAM, and storage to run development tools and software efficiently.

2.Web Server:

- A cloud-based server (e.g., AWS, DigitalOcean) or a dedicated server for hosting the website.

3.Networking Equipment:

- Reliable internet connection and networking hardware to facilitate development, deployment, and user access to the website.

4.Frontend Development:

- **HTML/CSS:** For structuring and styling the website.
- **JavaScript:** For adding interactivity and dynamic content.
- **Frameworks/Libraries:**
 - **Bootstrap** or **Tailwind CSS** for responsive design.

2.Hardwares and Softwares used for Task 2 :

1.Development Machines:

- Computers or laptops with sufficient processing power, RAM, and storage to run development tools and software efficiently.

2.Web Server:

- A cloud-based server (e.g., AWS, DigitalOcean) or a dedicated server for hosting the website.

3.Networking Equipment:

- Reliable internet connection and networking hardware to facilitate development, deployment, and user access to the website.

4. Web Development Languages:

- **HTML:** For structuring the content of the web pages.
- **CSS:** For styling the visual presentation of the website.
- **JavaScript:** For adding interactivity and dynamic features.

5.Frameworks and Libraries:

- Frontend:
 - **React, Vue.js, or Angular:** For building responsive user interfaces (if used).
 - **Bootstrap or Tailwind CSS:** For responsive design.

- Backend:
 - Node.js: For server-side JavaScript execution.
 - Express.js: A web application framework for Node.js.
- Database:
 - MongoDB or MySQL: For storing user data and application content.

4. METHODOLOGY

DESIGN PROCEDURE (Task 1-UptoSkills Website)

The HTML code describes the entire layout of a website's homepage, most likely for the educational platform "UptoSkills." An explanation of the code's methodology, including its organization, design tenets, and technology, is provided below.

1. Structure of HTML

Declaration of Document Type: This document's HTML5 status is indicated by the declaration. It is an HTML element that signifies that the content is in English.

Head Section: Includes connections to external resources (such as fonts), a title, and meta tags.

Meta Tags: Configure the viewport and character encoding for responsive design.

Title Tag: Determines the page's title that shows in the tab of the browser.

Custom typefaces for text styling are included in the Google fonts link.

2.Styling- Inline Styles: For efficient styling, such as font settings, padding, and background colors, many elements employ inline styles. Although this method is straightforward, it may result in maintenance issues and redundancy.

Flexbox and Grid Layouts: For responsive design, the layout makes use of CSS Flexbox and Grid.

Items in the header and navigation sections are aligned using Flexbox.

Features and blog sections are arranged in a grid fashion using the Grid Layout function.

3. Header and Navigation - Header: Features a login button and contact details, with a dark backdrop for contrast.

The navigation bar makes it easier for people to access different parts of the website by providing links to them. The white backdrop and shadow add depth, visually separating the navigation from the header.

4.Hero Section - Promotional Content: The hero section includes a compelling headline and a call to action. It adds visual intrigue with a gradient background.

Call to Action Buttons: "Hire From Us" and "HR TPO Podcast" are two examples of buttons that are clear and encourage user interaction.

5. Features Section- Grid of Features: Every feature is displayed as a card, which makes it convenient to read and aesthetically pleasing. Short descriptions and icons improve user comprehension.

Because of its responsive design, the grid can adjust to various screen sizes, making it usable on desktop and mobile devices.

6..Trending Categories Section- Highlighting Categories: Here, trending categories are highlighted with a striking backdrop color.Each category is displayed on a card that has an icon, title, and number of courses.

7. Blog Section - Blog Cards: To encourage content engagement, each blog post is presented in the form of a card with an image, title, and a link to read more. The blog postings are organized in a grid for convenience of viewing, much as the features section.

8. Startup Winners Section - Recognition of Participants: This section describes the startups and team members of competition winners. In order to establish a personal connection, each winner is given an image along with a brief description.

9. Footer - Provides copyright information, social media links, fast links, and contact details.
Grid Layout: To ensure accessibility and clarity, the footer arranges its many components using a grid structure.

10. Aspects of Accessibility - Semantic HTML: Headings, paragraphs, and lists are used to improve accessibility and SEO.
Alt Text for Images: Every image has an `alt` attribute that gives screen readers a description.

Utilized Technologies

HTML5: Used to organize the page.

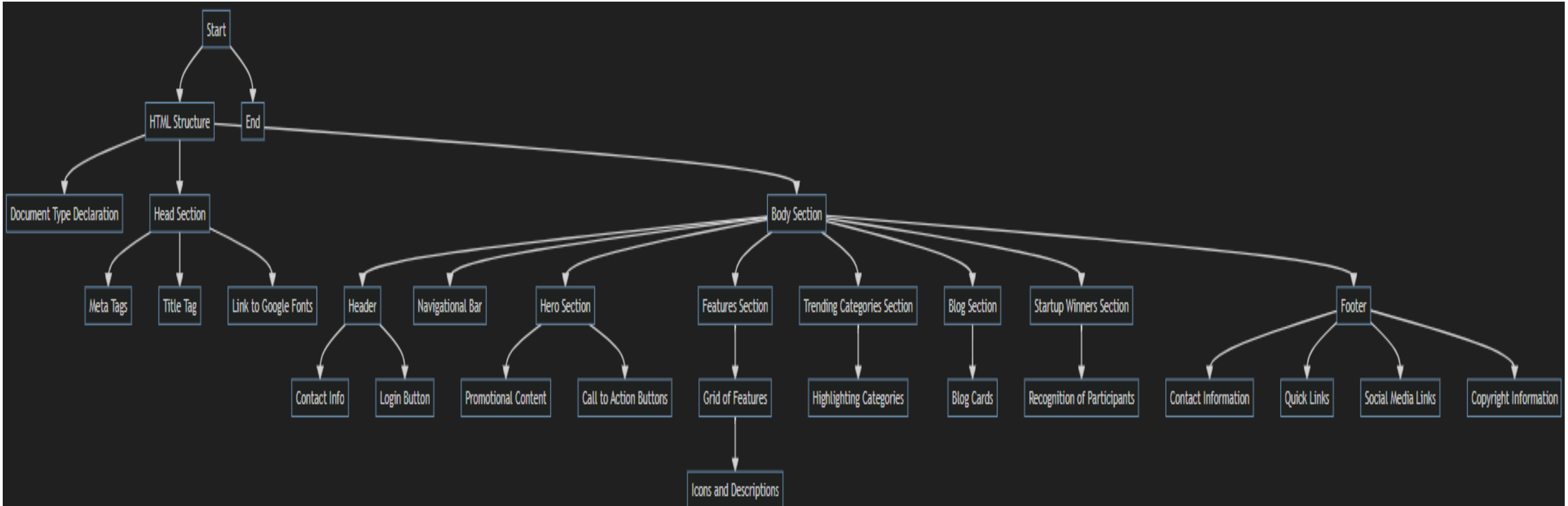
CSS: Inline CSS allows you to style items inside HTML.

Google Fonts: For unique fonts.

Responsive Web Design: Methods for flexible layouts like Grid and Flexbox.

This HTML code's methodology places a strong emphasis on a responsive, clean design that puts the user experience first. It combines multiple sections to offer thorough platform information, promoting user engagement with obvious calls to action and simple navigation. The site is easier to use on a variety of devices because to the usage of structured layout and semantic HTML, which also improves accessibility and SEO.

Flowchart



The flowchart describes the process used to create the HTML structure of the UptoSkills webpage. Starting with the general HTML structure, it describes important elements including the Head Section, which contains the title, meta tags, and links to Google Fonts, and the Document Type Declaration. This is followed by the Header (which includes a login button and contact information), the Navigational Bar, and a number of content sections, including the Hero, Features, Trending Categories,

Blog, Startup Winners, and Footer sections. A thorough grasp of how the homepage is structured and made for user interaction is ensured by breaking down each area further and emphasizing components such as blog cards, feature grids, call-to-action buttons, promotional content, and footer elements.

DESIGN PROCEDURE (Task 2 – Horilla HRMS Website)

The HTML code sets up the framework for the main page of "Horilla," an open-source HR software platform.

1. HTML Basics

Document Type: `<!DOCTYPE html>` tells us we're looking at an HTML5 document.

HTML Tag: `<html lang="en-US">` shows the page is in American English.

Special Tags: `xmlns:og` and `xmlns:fb` let the page work with Open Graph and Facebook. This helps when people share the page on social media.

2. Head Section: Meta Tags:

Character Set: `<meta charset="UTF-8">` defines the character encoding.

Viewport Settings: Makes sure the design adapts to mobile screens.

SEO Optimization: Adds meta tags to describe the page, guide search engines, and improve how the page looks when shared on social media.

Link Tags: Points to favicon and CSS files for styling.

Preload: Speeds up loading of the main CSS file.

Scripts: Contains structured data in JSON-LD format to boost SEO giving details about the organization and website.

3. Body Section

Google Tag Manager: Added to track how users interact with the site and gather data.

Header: Has the logo and navigation bar, so you can get to different parts of the site.

Mobile Menu: A button you can tap for mobile navigation makes it easier to use on smaller screens.

4. Main Content

Hero Section:

Shows a big heading and subheading to grab your attention, with buttons to get a demo and source code. A cool picture shows off the product making it look good.

Feature Section:

Shows the best parts of the software with icons and text in a list, so you can see why it's useful.

5. Call-to-Action Sections

Mobile App Promotion: Tries to get you to download the mobile app with a special section that has a picture and a link to the app store.

Complete HR Solution:

Content in tabs lets you check out different parts (like Recruitment, Attendance Payroll) by clicking around. Each tab tells you all about the features, to keep you interested.

6. Footer Section

Branding and Social Links:

Has the logo, links to social media, and links to important pages so you can find them .

Legal Information: Gives you links to privacy policy and other legal stuff.

Copyright Notice: Tells you who owns it and what year it's from.

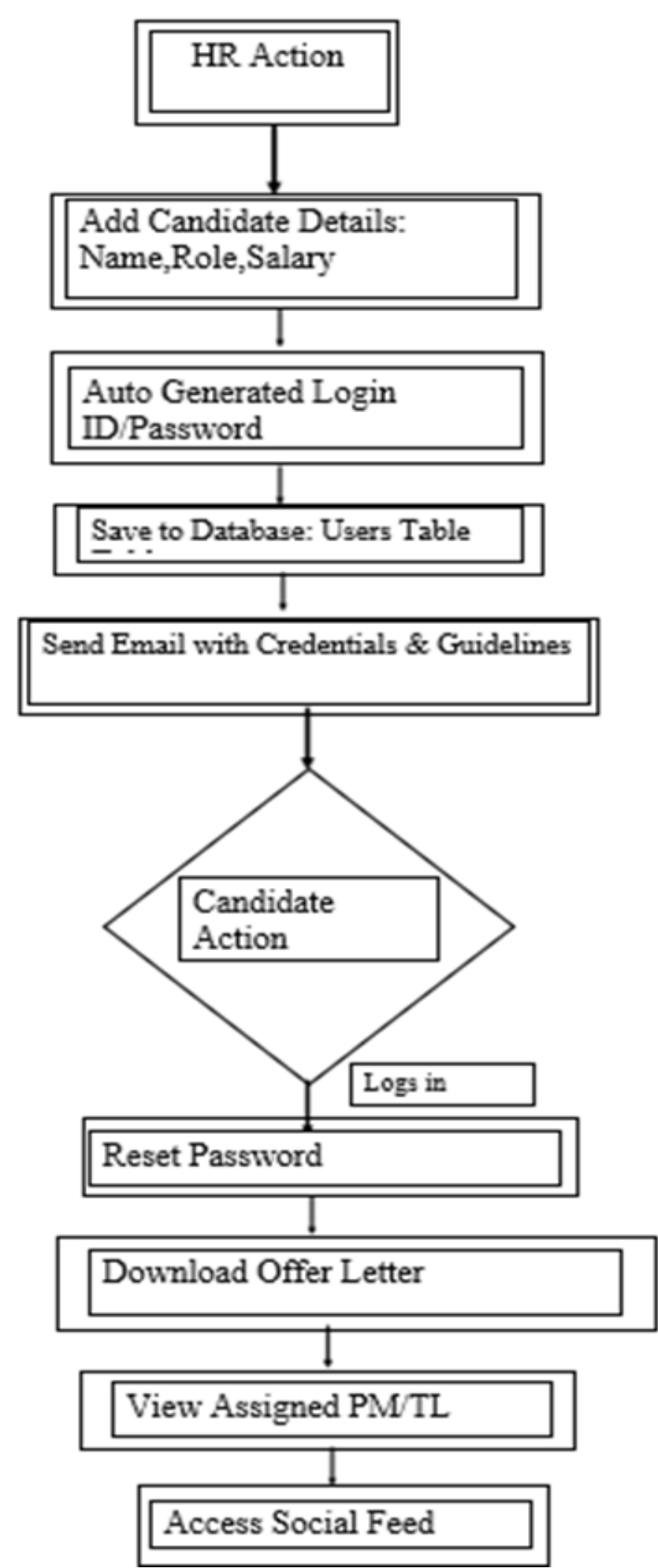
7. Scripts and Functionality

JavaScript: Has code to do things like close the banner and make Algolia search work and handling form submission.

The HTML code's structure aims to create a user-friendly experience while boosting search engine

visibility and social media sharing. It blends visual components interactive elements, and key details to capture visitors' attention and showcase the Horilla HR software. The approach focuses on responsive design, accessibility, and performance, which leads to a smooth experience for users on all devices.

Flowchart



The onboarding procedure in the HRMS software is as follows:

1. HR Action: - Include the candidate's name, role, and pay.
The candidate's user ID and password will be generated automatically.
The candidate's data should be saved in the users table of the database.
Provide the individual with their credentials and onboarding instructions via email.
2. Candidate Action: The applicant accesses the system and logs in.
They have the ability to change their password.
The offer letter is available for the candidate to download.
The designated team lead or project manager is visible to them.
Additionally, the applicant has access to the social stream.

The HR staff appears to be responsible for uploading the candidate's information, creating their login credentials, and disseminating the onboarding instructions as part of the broader onboarding process. After that, the applicant may log in, change their password, and access important information from the webpage.

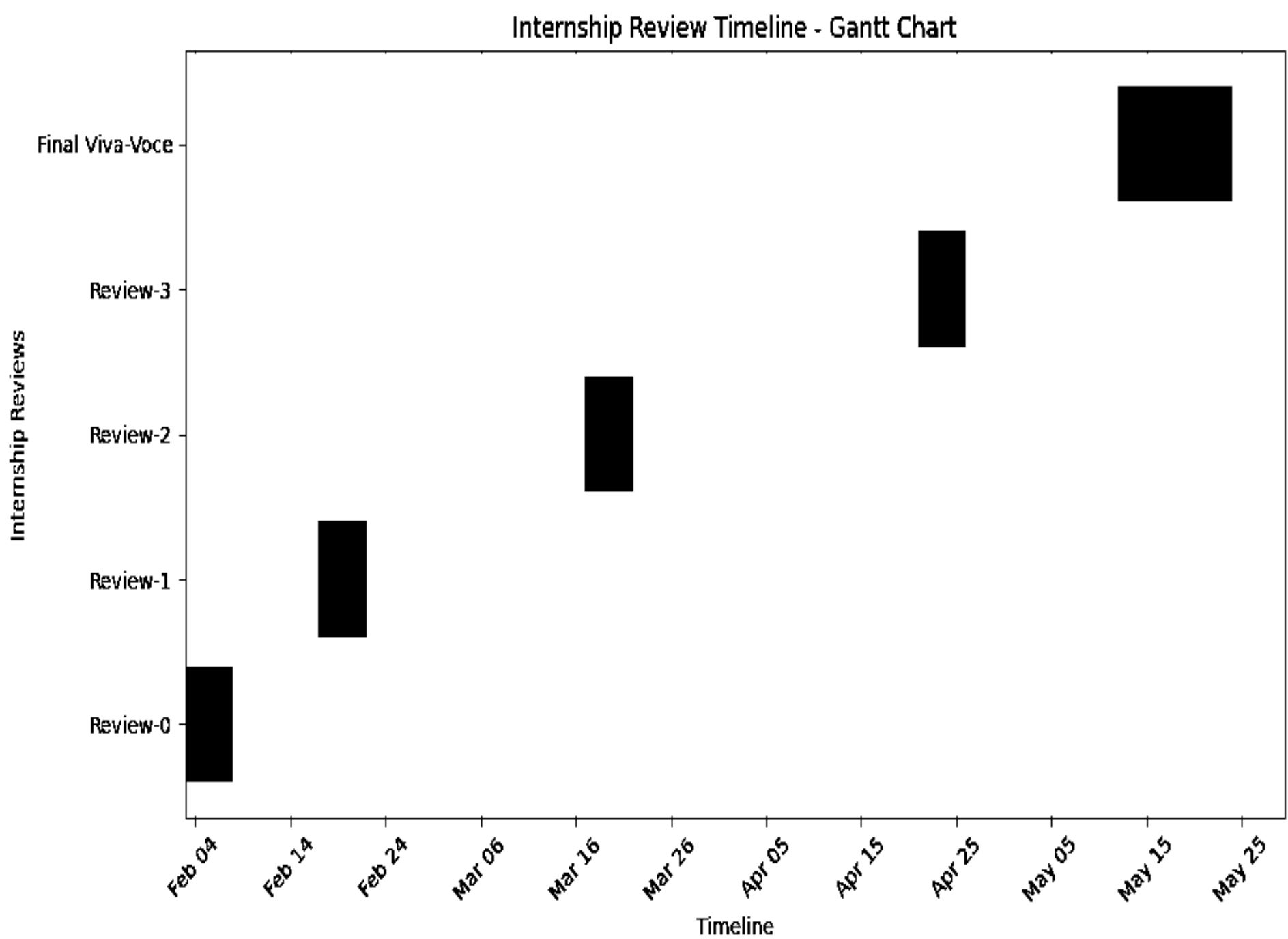
The offboarding procedure in the HRMS software is as follows:

- 1.HR Action:
 - . Identify the employee to be offboarded
 - . Initiate the offboarding process
- 2.Find Employee to Offboard:
 - . Locate the employee's information in the system
 - . Prepare for the offboarding tasks
- 3.Deactivate Login: Status = Archived:
 - . Revoke the employee's access to the system
 - . Mark the employee's status as "Archived"
- 4.Move Data to Archived Tables:
 - . Transfer the employee's data to designated archived tables
 - . Ensure the data is securely stored and accessible for future reference

5.OUTCOMES

- **Practical Experience:** Work on real-world tasks including creating web apps and copying websites.
- **Skill Development:** Develop your knowledge of web development techniques, such as HTML, CSS, and JavaScript.
- **Code Efficiency:** Gain knowledge of how to write code that is scalable, effective, and clean.
- **Flexibility:** As required for internship tasks, hone your ability to quickly adjust to new frameworks and technologies.
- **Analytical Thinking:** Develop your ability to think critically by taking on code problems and overcoming development roadblocks.
- **Familiarity with Tools:** Get acquainted with the fundamental tools used in web development, such as Git and integrated development environments (IDEs).
- **Quality Control:** To guarantee the operation and caliber of web apps, learn how to test and debug code.

TIMELINE OF THE INTERNSHIP EXECUTION PLAN



7.CONCLUSION

This web development internship offers practical experience through initiatives including cloning the websites of Horilla and UptoSkills. Interns can hone their HTML, CSS, JavaScript, and code optimization abilities while learning how to develop scalable and effective code thanks to this. The internship challenges interns to overcome coding obstacles and cultivate critical thinking skills, which improves their problem-solving ability. Interns have the chance to engage with professionals to comprehend their needs and provide solutions based on feedback, as well as be exposed to crucial technical tools like Git and IDE environments. Through extensive testing and debugging, they also learn how to guarantee the web applications' functioning and quality. Through this experience, interns develop into skilled, flexible developers who are prepared for the workforce.

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