

MIDTERM PROJECT

Phones glore

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Proposal for:

- **Coms 3190 Mid term project**
- **Iowa State University CS Department**

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Table of Contents

- **Introduction**
- **Purpose of The Proposal**
- **Goals & Objectives**
- **Project Description**
- **Resources**
- **Future Work**
- **Final Comments**

Introduction:

We, Naveen Prabakar, and Milo Mucu are in the team PS2. Naveen is a junior in Computer Science and Milo is a sophomore in Software Engineering. Naveen has some prior web development experience in HTML, CSS, and js, while Milo is new to web development, but we are both eager to learn about the development process. We both enjoy backend development, but also interested in learning and gaining experience with the front end process.

Purpose of the Proposal:

We want to develop a website that will inform audiences of the history of phones and its development over the past century. In the website, we want to talk about how the first phone was invented and the innovations over time to the modern smartphones today. Additionally, we want to have up-to-date information on the current model of phones (apple, android, etc), for people to view.

Goals and Objectives:

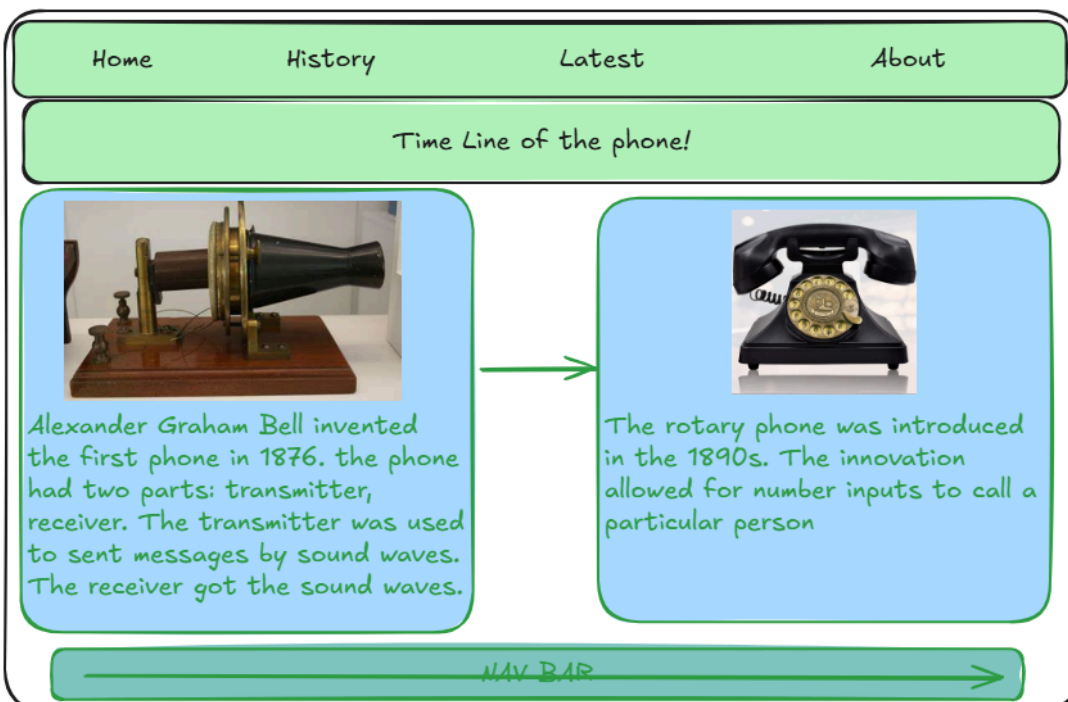
- Learn and apply HTML, CSS, and Java script concepts to the project
- Utilize JSON Files for storing information and extracting
- Provide a well detailed timeline about the history of the phone
- Break down complex vocabulary about the development of the phone for an average audience
- Create an engaging User interface (navigation bars) to view the history of the phones
- Provide links to potential consumers wanting to buy that model of phone
- Incorporate images of the phones for Users to see
- Create Objects for better organization of the details of the phone
- Potentially incorporate bootstrap to create a cleaner layout of the website, then adjust the css style to our liking
- Have updated and reliable information about the phones

Projects:

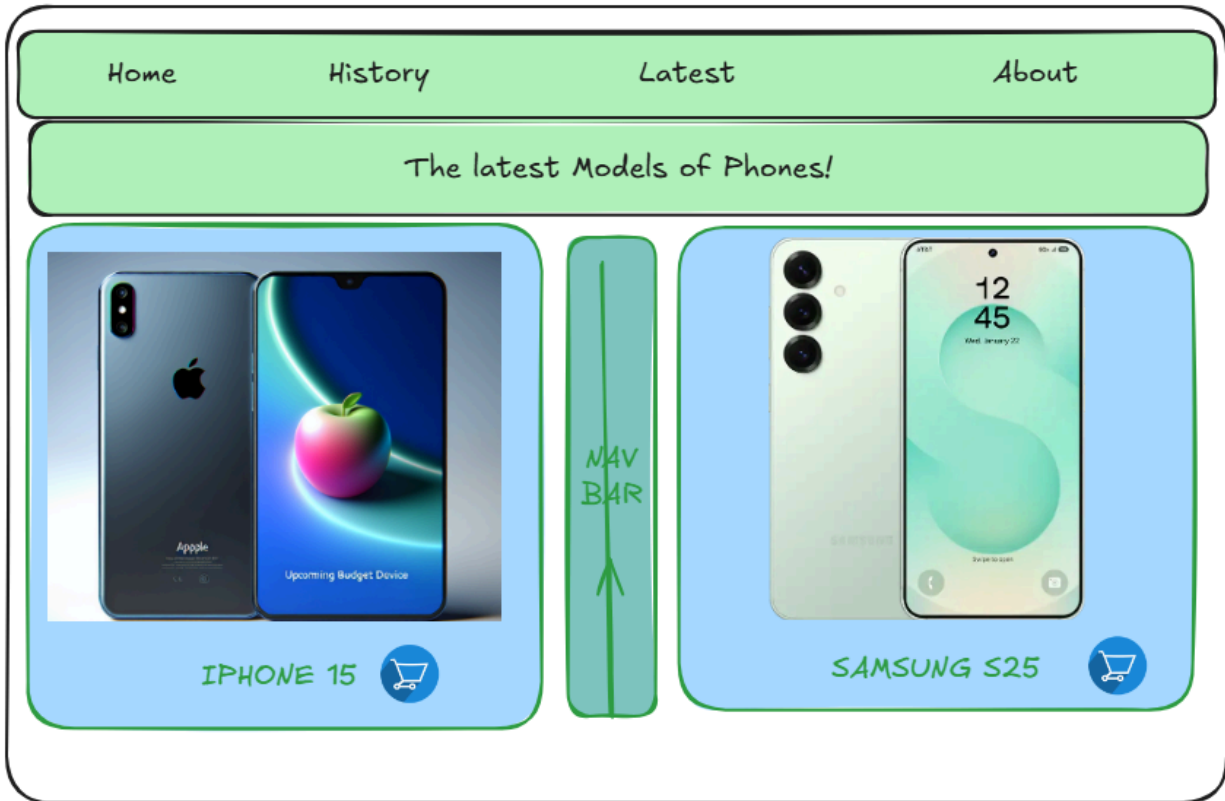
In our website, we want to be able to display an interactive page where you can navigate back and forth through the history of the phones. You can also view the latest models of each phone with the option to go buy them in an external link if they want. The primary goal is to create an engaging website where users can buy phones and learn about the development history of them.

- A Home page consistent about the basic information of what the website it about (a good introduction to the website)
- A history page that showcases the timeline of the development of the phone. It should be user interactive as should scroll left to right to view the history
- A Latest page that showcases the latest models of the phone, that showcases the newest phones and a link to go by them
- An about page that talks about the technical description and the information about the authors.
- A good header and footer to have a solid formatting
- Potential links to videos that explain the phone more in depth

Example of the history page:



Example of the Latest Page:



Resources:

- Programming languages HTML, CSS, and Javascript
- JSON files for storing information
- Potentially use Bootstrap for web page templates
- Timeline information from Google
- Image assets from Google on phones over the years
- Ecalidraw to create a wireframe of the timeline
- Gitlab issue board to keep track of tasks and distribute work
- Work and time evenly distributed among team members
- The current estimated time commitment per week is 2 hours for each team member

Future Work:

The midterm project is designed to be expanded with API's

- YouTube API to provide YouTube links to phone models, where users can learn more information about each one
- OpenAI API to generate a description of the phones
- Integrate databases for better storage system
- Use better framework (like three.js) or other frameworks for better UI design

Final Comments:

Thank you for reviewing the proposal. This project will allow us to practice the skills taught in this class while learning about the history of phones. For questions or clarifications, contact us at milomucu@iastate.edu and prabakar@iastate.edu.