

CS699 Project Proposal

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MOBINSIGHT

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1 Abstract

In an era defined by rapid technological advancements and an abundance of mobile device choices, consumers face the daunting task of selecting the right mobile device that aligns with their unique needs and preferences. To address this challenge, our project, "**MOBINSIGHT**" aims to provide a comprehensive resource for users seeking detailed information about mobile device specifications. This project revolves around creating a user-friendly, web-based platform where consumers can access a wealth of information about various mobile devices. Our platform will allow users to search for a particular phone. Our platform will allow users to search, compare, and analyze mobile device specifications

2 Methodology

Our innovative solution leverages web scraping to collect and present accurate, UpToDate information about mobile devices from various websites such as 91Mobiles & Gadget360. And we intend to use *Beautiful Soup* to scrape the data using python. We will build the web application using *Django*, *PostgreSQL* as database along with the frond-end, based on *HTML & CSS*.

3 Stages

3.1 Stage 1 :

Utilizing web scraping to present data regarding mobile device specifications and features. We will setup a PostgreSQL database which will contain information about various mobiles such as Performance, Display, Camera, Battery & Price. (For example: Providing a summary of the 'iPhone 13' smartphone) Relevant details to be showcased: Performance, Display, Camera, Battery & Price.

Website to be used for scraping: 91Mobiles(<https://www.91mobiles.com>)

Website to be used for scraping: Gadget360(<https://www.gadgets360.com/>)

3.2 Stage 2 :

We will be developing a website dedicated to mobile device specifications using the Django web framework and integrate a PostgreSQL database into the backend. We will leverage the MAKE tool to automate various task related to testing, running and cleaning up the project.

4 **Tech-Stack**

- Python
- Python Libraries: - Scrapy, BeautifulSoup
- Web Framework: - Django
- GitHub
- PostgreSQL
- MakeFile
- HTML and CSS