

PROJECT NAME; CHUNK_FILE

PRODUCT NAME; BYTSFY

A presentation for Bytsfy a platform
you can rely on to splits your files, fast, easy
and safely.



7TH JULY, 2022



TEAM 46

Zuri Team: Project Chunk-File

Team Name: (Proj_team_46)

Project Name: Bytsfy

Figma Link: <https://www.figma.com/file/tuomUWvWQTHx92nu1u1xOV/Bytsfy-Team-46?node-id=0%3A1>

Figjam Link: <https://www.figma.com/file/2S0IWfdNeuw3x22oZXMw1k/Bytsfy-Zuri-Team-46?node-id=0%3A1>

Github Link: https://github.com/zuri-training/Chunk_file_team_46_Bytsfy/tree/main/Back-end

Database Schema Link: https://github.com/zuri-training/Chunk_file_team_46_Bytsfy/tree/main/Front-End

Testable Link: https://github.com/zuri-training/Chunk_file_team_46_Bytsfy/tree/main/Front-End



Introduction

As part of the internship final project phase we were tasked with creating a platform that accepts a CSV or JSON file and converts them into smaller functional bits, and that's how BYTSFY was born, designed for some users like developers and data analysts.

OVERVIEW

What is BYTSFY

Over the years, resizing files and having them maintain the same quality while functional can be worrisome as a data analyst, receptionist, student or in any profession especially when it affects productivity. However, with Btysfy, files can be resized into bits while maintaining the same quality as well as an option to save and download for later.

Users needed a platform to quickly upload their files and have a functional file in smaller bits to work with. The website will allow users to split CSV or JSON files into smaller functional bits. It will further enable them to save these files in different formats as well as the save for later and download feature.

Project Overview

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Program Coordinator

Chikire

Project Supervisor

Nwokoye Praise

Project Team (Track)

- Product Design
- Fullstack
- Frontend
- Backend

MEET THE TEAM

The creative people at BYTSFY
say welcome and enjoy.

Design Team

Mercy Belrah Kanu, Nwoko Daniel, Julius Ogunsola, Shulamite Ofua,
Adelesi Tinuade, Edafioghor Prince Oghenemairo, Edith Udeagha,
Olaoye Oluwamayowa, Likita Ruth. Obed Akaharia. Adakole Stephen.

Front-End Team

Chibogu Chisom, Adedayo Agboola, Kieni Edojah. Shidmer Akeyo

Back-End Team

John Adeleke, Adedayo Agboola, Abdulsamad Yusuf.



Team Members

1. John Adegoke Adeleke - Fullstack (**Team Lead**)
2. Mercy Belrah Kalu - Product Design (**Asst. Team Lead**)
3. Ofua Shulamite - Product Design (P.R)
4. Adelesi Tinuade - Product Design
5. Likita Ruth - Product Design
6. Edith Udeagha- Product Design
7. Kieni Edojah- Full stack
8. Adakole Stephen Owochoyale- Fullstack
9. Nwoko Daniel Chidiegwu- Product Design
10. Ogunsola Julius Ayomide- Product Design
11. Shidmer Akeyo Orero- Fullstack
12. Idowu Olayinka- Fullstack
13. Edafioghor Prince Oghenemairo- Product design
14. Obed Akharia- Product design
15. Chisom Chibogu- Fullstack
16. Agoro motunrayo rashidat- Product design
17. Adu Ayomide- product design
18. Eric Gitonga Gituma- Fullstack
19. Eunice- product design
20. Abdulsamad Yusuf- Fullstack
21. Adedayo Agboola- Product Design
22. Oluwamayowa Olaoye- Product Design

PROJECT PHASE

DESIGN STAGE

User Research & Style Guide Implementation: User Research was carried out after we had understood the design brief to better understand our users and give them a good user experience with the product.


User Persona: We carried out a user interview using the qualitative research method that involves the user's feelings, behaviors, or motivation.

We interviewed our target audience and came up with the persona.

Kindly find attached a link to view:

<https://www.figma.com/file/2S0IWfdNeuw3x22oZXMw1k/Bytsfy-Zuri-Team-46?node-id=0%3A1>

Kelvin Francis



Age: 28
Location: Abuja, Nigeria
Sex: Male
Data Analyst

"I send out data for work daily, so I'm looking for a simple solution that is time saving and maintains the original file quality"

Bio

Kelvin has been working as a data analyst for 3 years. Since this profession is associated with data collection, large files and statistical information, he constantly needs to resize work documents before sending them out.

Kelvin wants to be able to resize his large files to smaller sizes so that his work does not take more time as required thereby affecting his productivity.


Goals

- To have a secured, fast and reliable way to collect, share and deliver huge files. A slow set up process for most apps.
- To have access to basic information on the website before registration.
- To find an app that maximizes his work productivity.

Frustrations

- Unable to deliver within expected time frame at work.
- Difficulty in finding an app that maintains original file quality while resizing.

Hope Davids



Age: 30
Sex: Female
Location: Edo State, Nigeria
Data Scientist

Bio

Hope is a data scientist for DataCom for the past 7 years. Since he works with large number of data set for statistical analysis and machine learning, he always need to split his data set manually to smaller bits before analysing them.

Hope wants to be able to split large data sets into smaller data sets for easy analysis, and also compress larger file sizes, so he does not spend so much time and meet up with deadlines.

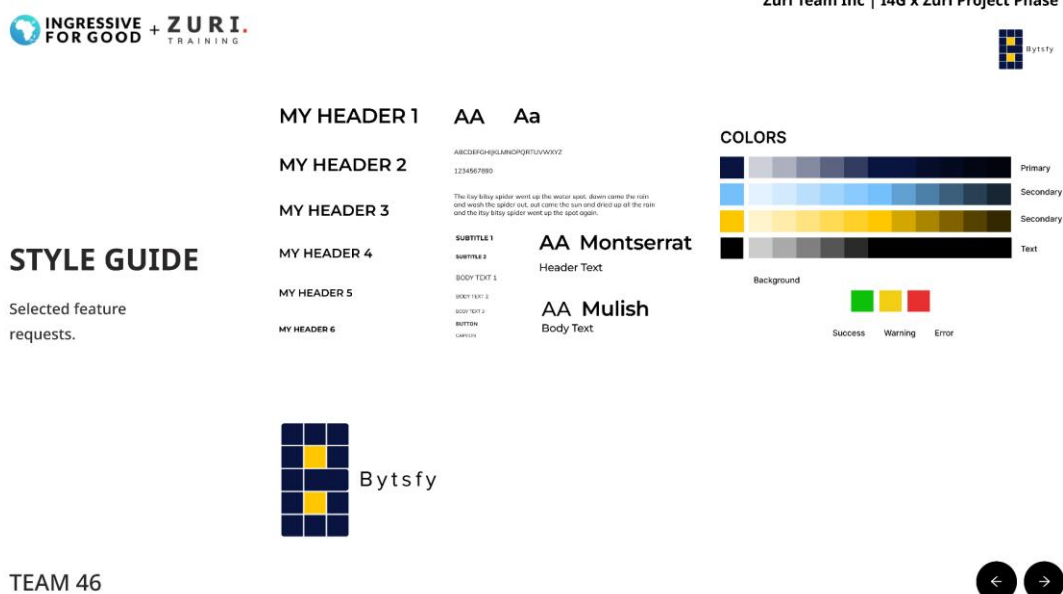
Goals

- Access to app that split files for free without monthly subscription.
- Access to information and community before registration.
- To find an app that maximizes work productivity.

Frustrations

- Unable to access apps that breakdown large data set into small set of data
- Delay in meeting up with project deadlines
- Unable to access app that keeps the quality of the initial files

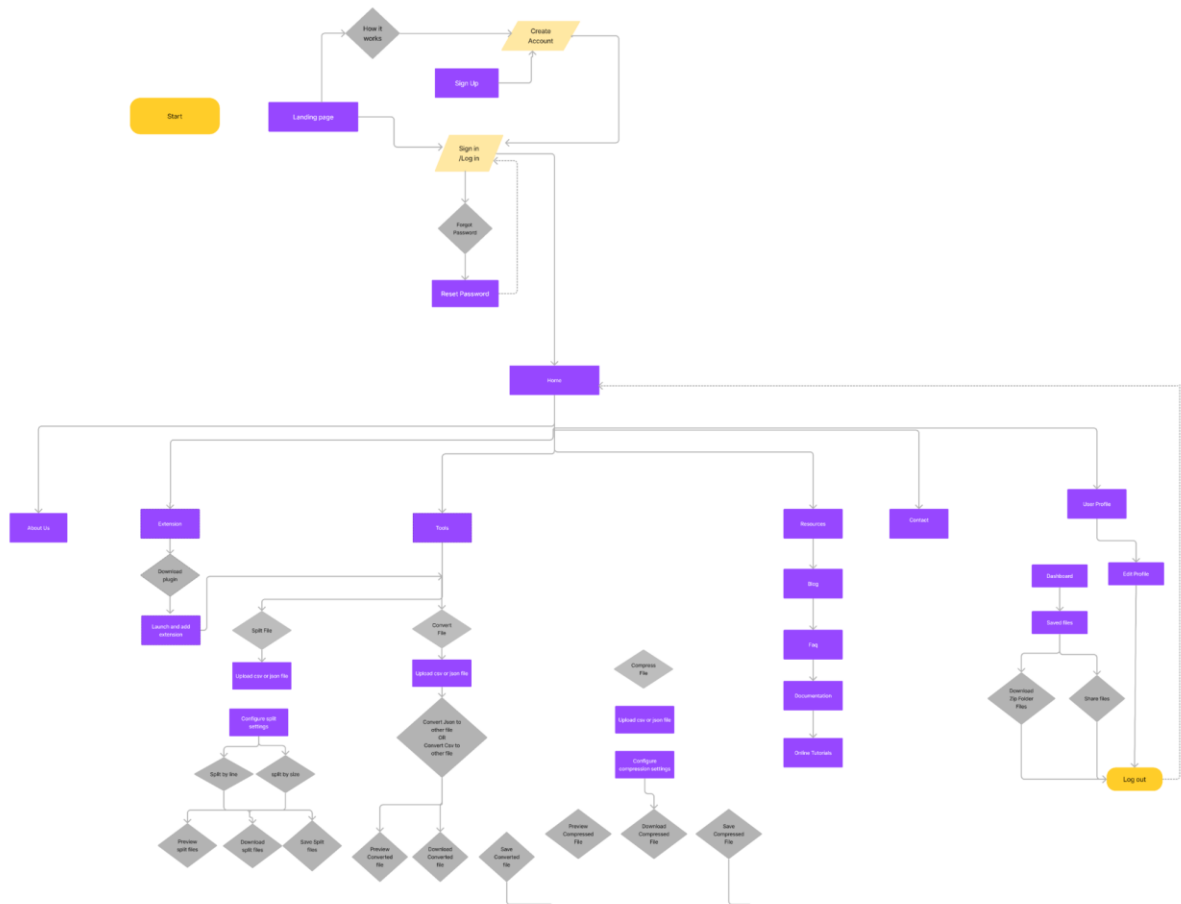
Phase 1: Style guide Implementation.



Phase 2: User Flow, User Journey Map, Competitive Analysis, Information Architecture, and User Story.

We also did a **User Journey Map, User Flow, and Information Architecture** that shows the start-to-finish engagement of a user with a product in a different presentation.

User Flow:



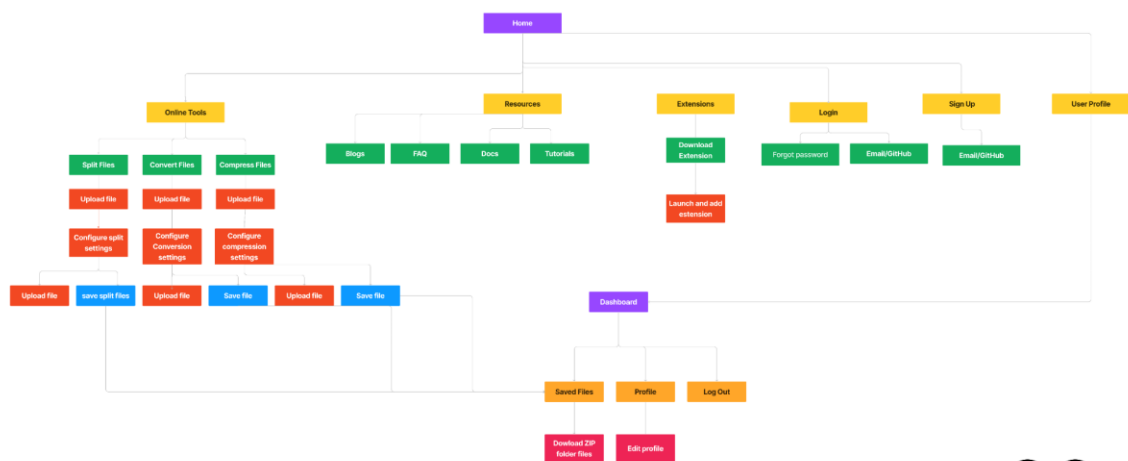
Information Architecture:



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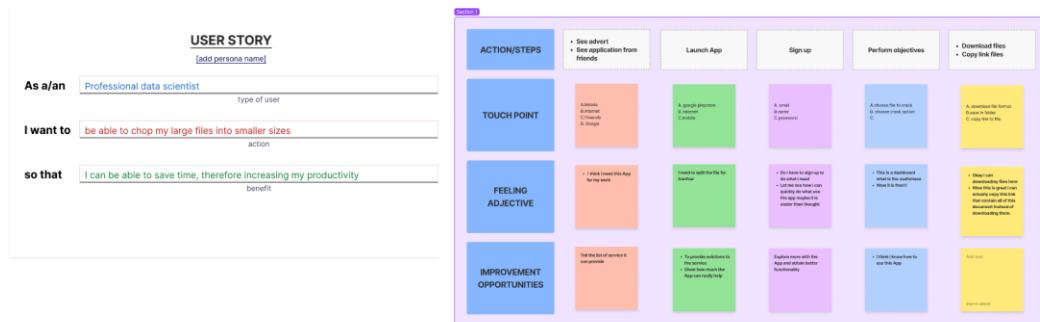
Information Architecture



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User Journey Map and User Story:



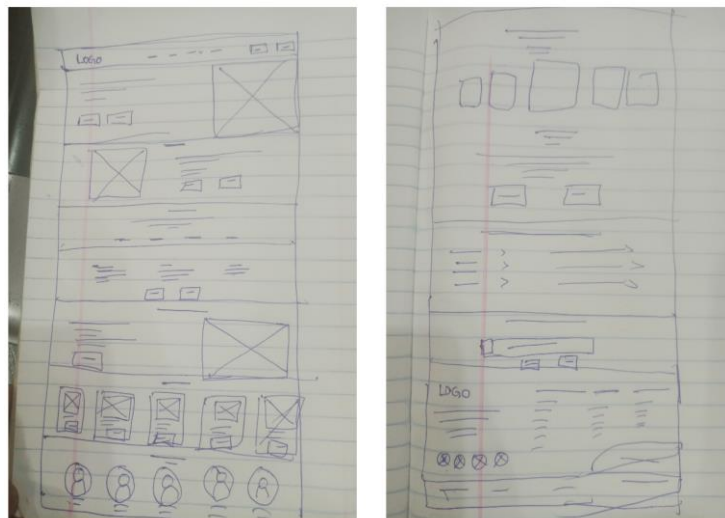
We carried out an analysis on competitors to ascertain what improvements to implement in ours and generally what could make our product different. We did a competitive analysis on **CSVJSON** and **ConvertCSV** respectively.

Phase 3: Ideate and Sketching out required features, wireframes/low-fi.

After carrying out a user research, competitive analysis, information architecture, and user story, we had a better understanding of our product and our users. We further decided to come up with sketches and low-fi to have a skeletal visualisation of our product.

SKETCHES

Selected feature requests.



SIGN UP



LOW-FI

Selected feature requests.

SIGN IN



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Phase 4: Ideate additional features that best suit our target audience.

Since we were going with a **non-linear** design thinking process, there's a need for **redefining problems** and looking through **innovative solutions** that can give the user a good experience with the product. We had a meeting and discussed what should be on the landing page as well as other screens for the product.

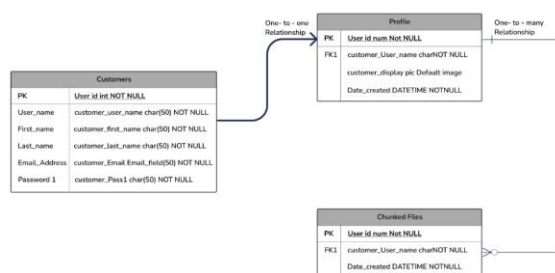
Furthermore, **each team member** did a **presentation** on the wireframes/lo-fi task assigned to explain their design process and how it best suits our users.

Lastly, team members gave their views on the presentation where iterations were made and effectively duly.

Data Base Schema for Chunked_file Team 46 Bytsfy Project

DATABASE SCHEMA

Selected feature requests.





DEVELOPMENT

Selected feature requests.

FRONTEND STACK

CSS , HTML, JavaScript were the programming languages used.

Bootstrap as a framework was used to create a responsive and beautiful web application, and the developers ensured the ideas of the designers are implemented in the best possible way.

BACKEND STACK

Python was the programming language used

Django as the framework was used for this project because it has a large stack of inbuilt classes, objects and various other resources that allows the developers to manage and create usable web applications easily.

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FRONTEND STAGE

Stack CSS

Bootstrap:

Bootstrap is designed to help developers easily create responsive and beautiful web applications, and ensure the ideas of the designers are implemented in the best possible way. As a result of this, it is our choice of framework for our frontend design.

Javascript:

Html

BACKEND STAGE

Stack

Django:

Django has a large stack of inbuilt classes, objects, and various other resources that allow developers to manage and create usable web applications easily, and as a result, we have chosen it as our framework of choice to build the backend features for our project.

We will be using the Django framework to carry out the following operations on our project:

1. Create Applications:

In order to manage our project functionalities, we will be using Django's framework to break them up into the following:

Manage User Accounts (Creating, Updating, and Deleting user accounts)

Authenticate Users

Implement the Chunk file script on the frontend

Manage admin permissions.

2. Creating Database(s)/ Linking External Databases:

Our user information, roles, and permissions will be managed and updated through the Django backend settings, as it ensures that we can scale up our database/ project when necessary.

Our user files(chunked .zip files) will also be stored using Django's inbuilt file storage class, and saved within a designated database, to allow users to retrieve their chunked files when needed.

The databases for both features will be created externally, (either via MongoDB or PostgreSQL and linked to our Django project.

3. Manage user permissions:

We will be using Django to ensure that each user, when registered and signed in, is assigned a specific role that gives them permissions that allow them to break down and download their files, without interfering with the admin permissions.

4. Run Tests:

For each application we will be creating, Django ensures that test files are created, and provides test cases and libraries for specific user models. This ensures that we can run tests and ensure our applications are in working condition within our development environment before deployment and fix whatever problems we have quickly.

5. Create User Profile:

For each user that is created within our database, a profile will be created for them with a profile picture, which they can change, that will be visible on the frontend of our web application. Django allows us to create specific user models that take in image fields and change them as the user feels fit.

6. Ensure Implementation of Main project functionalities:

By providing numerous in-built functionalities that make it easier for developers to create databases, run tests, and so on, our Developers can

focus more on ensuring the main scope of our project, which is **taking large files and splitting them up into smaller ones, saved in a .zip file**. They can dedicate more time to fixing bugs, or providing extra user functionalities as they see fit.

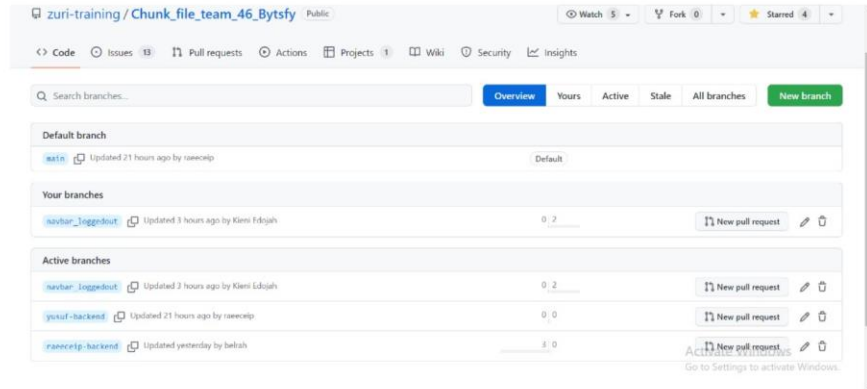


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GitHub

Selected screens
showing repositories



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