Project Name: Convert Master

Summary

Convert Master is a free online file converter which can be used for the following conversion:-

1. **XML to JSON**
2. **XML to CSV**
3. **JSON to XML**
4. **JSON to CSV**
5. **CSV to JSON**
6. **CSV to JSON**

Convert Master can also be used for downloading the converted file and also to preview the converted file on the go. Registered Users can also view and download all of their converted files after a secure login. The easy to use and simple UI/UX is our priority.

Convert Master is a web app powered by Django. A powerful python framework for building full stack website. We will be using Django’s admin panel for User management. A beautiful yet simple UI/UX theme which will be integrated with Django. We will be using SQLite3 for database but will shift to Postgres or MySQL when Project moves to server deployment phase.

Personal Information

|  |  |
| --- | --- |
| Team Name | D’Coders |
| Team Leader Name | Harmandeep Singh |
| Team Members Name | Kriti Rikhi |
| Institute | 2nd Year, B. Tech Computer Science Engineering, Guru Nanak Dev University, Amritsar |
| Email | [Singh.hrmn98@gmail.com](mailto:Singh.hrmn98@gmail.com)  [Kritirikhi1999@gmail.com](mailto:Kritirikhi1999@gmail.com) |
| Phone | +91 8360303178(Team Leader)  +91 9815335768 |
| Blog | <https://mastervulcan.blogspot.com/> |
| GitHub | <https://www.github.com/SinghHrmn>  <https://www.github.com/KritiRikhi> |

About Team

I am Harmandeep Singh currently pursuing B.Tech Computer Science Engineering in 2nd year at Guru Nanak Dev University. I have good experience coding in Python and C/C++.

I have participated in many events like ‘*I am Engineer*’ and ‘*Hack0to1’* v2.0 and I was also part of ‘*CessSummerOfCode*’ last year. I secured consolation prize at Hack0to1 v2.0 for project FARM\_FRESH. Currently I am teaching python online.

I am Kriti Rikhi currently pursuing B.Tech Computer Science Engineering in 2nd year at Guru Nanak Dev University. I have programming experience in Python and C/C++.

I have made various projects on the Django framework and Tkinter module of python which include:-

* Calculator
* Cloud based messaging system
* Student database management app
* Online shopping Website

Currently I am working on the same technology in order to excel.

**Q) How much time will we be able to contribute to this project?**

We will be devoting 2-4 hours daily working on the project.

Benefits to Community

Convert Master tool will be first online web app for converting files. This will help user convert the files from one format to other without any manual work. The main advantage will be to the people who want to convert long files. The converted files can be copied from preview or download as file. The user log can be seen after a successful login. This project can then be integrated with other file conversions and many other Django apps can be connected and installed.

Project Goals

Objectives

* Implementing file conversion code for various conversions
* Setting up a Django project
* Creating Login app
* Designing a template which will be used as the frontend
* Implementing conversion code inside Django
* Setting up Frontend
* Testing the project

Tasks

**Task 1 (Main Code):**

To implement file conversion code in python and testing it on different files

* Finding methods for converting file
* Testing it against various files
* If the code works fine. Save the code for future use
* If test fails retry

**Task 2 :**

Setting up the Django project and setting up the login system creating signup form for website.

* Setting up a Django Project
* Setting up a full login system app
* Testing if everything is fine

**Task 3 :**

Work on template design to be used as frontend

* Start creating base template
* Create various other pages
* Work with CSS and bootstrap
* Try to define good and simple UI/UX
* Save this template for future use

**Task 4 :**

Implementing conversion code and template design inside Django project.

* Using Template inside Django project
* Using Main Code inside Django
* Linking the code with database for saving the user files

**Task 5 :**

Testing the main code again for the file conversions

* Testing the web app for functionality
* Testing for user log with register user
* Check if file download is working
* Deploy it online on platforms like Heroku or Digital Ocean.

**Task 6 :**

* Writing Documentation for Task 1
* Writing Documentation for complete web app

Timeline

|  |  |
| --- | --- |
| **Duration** | **Task** |
| 2 June 2019 | Last date for submitting proposal |
| 4 June 2019 | Announcement of selected teams.   * Learning about various coding standards. |
| 05 June 2019 –  10 June 2019 | Community Bonding Period   * Getting involved in Django community * Learning about mentors * Setting up project on GitHub * Learning more about Django libraries   Start working on Task1   * Start implementing task1 * Learn about useful methods or libraries * Fixing bugs |
| 11 June 2019 –  17 June 2019 | Coding Begins  If Task 1 completed , start working on Task 2   * Creating project * Setting up the admin panel * Creating a login app * Testing and fixing bugs |
| 18 June 2019 –  24 June 2019 | Start Working on Task 3   * Start creating base template * Use CSS and bootstrap to make website responsive * Follow coding guidelines |
| 24 June 2019 –  29 June 2019  30 June 2019 | Start implementing Task 4(Part 1)   * Use the predefined template * Integrate base template with Django * Load all the static files and templates directory * Setup Urls in Django * Divide the project into apps like login, converter etc.   Uploading the project on github for mid term evaluation |
| 1 July 2019 –  5 July 2019 | Start Working on Task 4(Part 2)   * Start implementing python functions inside the Django project * Fixing bugs |
| 06 July 2019 –  12 July 2019 | Start working on Task 5   * Testing the web app * Testing the file download * Asking fellows to give feedback * Fixing Bugs * Adding more features to enhance UI/UX |
| 12 July 2019 –  20 July 2019  21 July 2019 | Start Implementing Task 6   * Writing documentation for Task 1 * Writing Documentation for Full web app   Last date for submitting the project. |

Deliverables

* Django based web app for converting files
* Complete Documentation of web app
* Complete Documentation for Main Code Task 1

Future Goals

* Add more conversion types
* Can integrate with other projects such as Python to PHP code converter
* Creating API which can be used by various other web apps who wish to use our service.