**PROJECT PLAN DOCUMENT**

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| Project number | 21 |
| Project Title | Scrapshut |
| Document | Project Plan |
| Creation date | 5/02/19 |
| Created By | Avani, Parv |
| Client | Mounikesh Thota (Scrapshut) |

1. **Brief problem statement**
2. To develop a web platform for ScrapShut where users can rate different website articles and check reviews of a particular article. We aim to provide users with data on which articles are fake and which are not.
3. **Team Members**

Avani Gupta

1. Parv Joshi
2. Siddharth Jain
3. Apoorva Tirupathi
4. **Team Communication**
5. Meet on a weekly basis.
6. Contact each other via messenger, Whatsapp, email.
7. Contact with Client via Email and Whatsapp group
8. **Development Environment**
   * + Editor - VS Code
     + Web framework - Django 3
     + Collaboration tools - Gitlab
     + Frontend - Angular.js
     + Documentation - Google Docs
     + Database – AWS, Heroku
     + Machine Learning and Web Scraping

Language: Python

Framework: Jupyter Notebook

1. **Milestone Schedule**

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| **Milestone** | **Due Date** | **Release** | **Deliverable?** |
| *Requirements Study*   * Meeting with client * Requirements gathering * Feasibility Study * Project Scope Documentation * Project Concept Documentation | 21 Jan | Sprint1 | No |
| *Finalizing requirements*   * Project Plan * SRS creation * Study of ML models for Fake Content Detection * Study of Web Scraping Techniques | 1 Feb | Sprint 2 | Yes |
| * Sprint Goal Document * Learning Vue.js, Django * Basic UI interface (Vue.js) | 15 Feb | Sprint 3 | Yes |
| *Basic Website Creation*   * Frontend(Angular.js) and backend(Django)   + User login/signup   + User Authentication   + Upload link of article   + URL verification of article link   + Option to Rate and Review the article | 25 - 29 Feb | Sprint 4  **R1** | Yes |
| *Website Enhancement*   * Option to mark a website as fake * Enhancement of UI * Improve upon security aspects of Authorisation   *Basic ML model*   * Gathering Dataset * Feature Engineering * Training basic ML model for fake news detection Scraping * Scraping article title, body from link posted by users | 12 - 14 Mar | Sprint 5 | Yes |
| *Building different ML models*   * Training different ML models * Building their performance metrics * Trying Deep Learning models, Neural Networks   Website backend Improvement   * Enhance User dashboard | 23 March | Sprint 6 | Yes |
| *ML model finalisation and enhancement*   * Choosing the best suited ML model * Further training it * Deciding upon various parameters * Tuning Hyperparameters * Connecting to website database * Using scraped data after cleaning to predict | 4 Apr | Sprint 7 | Yes |
| * Updated Design Document * Integration of ML model with Website * Deployment   + ML model in AWS   + Database in AWS and Heroku | 11 Apr | Sprint 8  **R2** | Yes |