

**LoanScraper**

# A Group Project Submitted for Undergraduate Project Lab (BCA581) 2022 -2023

**By**

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**SYNOPSIS**

**DOMAIN:** Reddit scraper and analytics

**TITLE:** LoanScraper

# INTRODUCTION:

r/Borrow is a booming subreddit where people in need of quick money post requests for it, and lenders help them out. It works as a Loan system without banks and excessive interest rates involved. Especially for medical expenses, basic food expenses, transportation costs, paying insurances, and other essential miscellaneous expenses.

Normally browsing through Reddit’s r/Borrow is difficult. What’s more difficult is manually collecting data and analyzing it. LoanScraper does exactly that. It is a two-part software that:

1. Scrapes through r/Borrow and collects all the necessary data.
2. Applies statistics and analytics on the data collected.

To make things easier, people interested in lending money to the people on the subreddit can use this software to get notifications every time there is a new post, view the necessary contents of the request and the reputability of the poster and make a decision whether or not to help them out.

# MODULES:

# Scraper

This is built using python. This will scrape through the subreddit every time there is a new post, excluding those posts that are duplicates. It collects the data and stores them in a MongoDB DB.

# Analysis bot

Uses python to perform analytics on the data collected and stores them in another table. These analytics are then displayed on discord using the messaging bot that displays the information every time there is a new entry.

1. **Messaging bot**

This bot, built with python which uses the python discord libraries accesses MongoDB and sends an alert to whichever server it is a member of.

# Uniqueness / complexity

This is something that has not been done yet. There exists no software that collects data and performs analytics on r/Borrow. LoacScraper will be the first piece of software that will perform this in an automated way, using databases.

# TOOLS PROPOSED TO USE:

For Front end: ReactJS, APIExpress, Java.

For Back end: MongoDB, Python, Flask.

# CONCLUSION:

# LoanScraper will be the first software in its application, which will allow lenders to find credible borrowers on r/Borrow.