# Introduction

## System introduction

This system is a typical three-tier web application mainly designed and implemented using MEAN stack.

The data source is a data set that contains the revision history of some Wikipedia articles, which contains many JSON format files. This system stores the data set in a MongoDB non-relational database. By querying and summarizing the information in the data set on the server side, the summarized summary and statistical information results are returned to the front-end page, and the concise and clear chart information is generated and displayed on the page.

This webpage program can also communicate with third-party websites through published web services. By downloading the latest data from the original data source, we add the latest data to the dataset.

This web application was eventually built on the Heroku Cloud Application Platform, which can be opened directly via <https://com5347angulargourpsix.herokuapp.com/>.

## Division of labor

Front-end development: Shanzheng Liu

Back-end development: David Dai & Qizhen Zhu

# Feature design

## Function module introduction

### User module

In this system, the user's login and password modification functions are provided. After providing the email and password, the user can successfully register an account. The user must log in to perform a series of operations on the website. The system also provides the option to reset the user's password based on the authentication answer. After completing the query access operation on the page, the user can safely log out of the account.

A screenshot of a social media post

Description automatically generated

Figure1.1 Home page

### Overall analytics module