**MAKEREREUNIVERSITY**

**COLLEGE OF COMPUTING AND INFORMATION SCIENCES**

**SCHOOL OF COMPUTING AND INFORMATICS TECHNOLOGY**

**BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING**

**Project Name: Stack\_overflow study project.**

This is a stack overflow study project that is going to use a stack overflow Analysis System.

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| S/No | Name | REGNO | STUDENT No |
| 1 | MABIRIZI KIZZA AHMED | 16/U/553 | 216000099 |
| 2 | SSESSAAZI NASSER | 16/U/11763/EVE | 216003221 |
| 3 | KABALI FAHAD MALIK | 16/U/5043/PS | 216003181 |
| 4 | LUBEGA MARK ARNOLD | 16/U/6609/PS | 216003185 |

Team Leader: MABIRIZI KIZZA AHMED

Advisor: ISAAC MBABAZI

Submitted in partial fulfillment Of the requirements of a

Software Engineering course project

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# **1.0 BACKGROUND**

Founded in 2008, [Stack Overflow](http://stackoverflow.com/) is the largest, most trusted online community for developers to learn, share their knowledge, and build their careers. More than 50 million professional and aspiring programmers visit Stack Overflow each month to help solve coding problems, develop new skills, and find job opportunities.

Stack Overflow partners with businesses to help them understand, hire, engage, and enable the world's developers. Our products and services are focused on developer marketing, technical recruiting, market research, and enterprise knowledge sharing.

Each year, Stack Overflow asks the developer community about everything from their favorite technologies to their job preferences. This year marks the eighth year Stack Overflow has published their Annual Developer Survey results—with the largest number of respondents yet. Over 100,000 developers took the 30-minute survey in January 2018.

There are 98,855 responses in this public data release. These responses are what are consider “qualified” for analytical purposes based on completion and time spent on the survey and included at least one non-PII question. Approximately 20,000 responses were started but not included here because respondents did not answer enough questions, or only answered questions with personally identifying information. Of the qualified responses, 67,441 completed the entire survey.

The project management team intends to analyze these results and deduce what can be learnt about salaries or machine learning or diversity in tech. This analysis could help Stack Overflow improve on service delivery such as developer marketing, technical recruiting, market research and enterprise knowledge sharing.

# **2.0 PROJECT DESCRIPTION**

## **2.1 Goal.**

The goal of this project is to critically analyse the survey results so as to fin a way on how to improve on developer marketing, technical recruiting, market research and enterprise knowledge sharing at Stack Overflow.

## **2.2 Objectives**

• Analyze the data in the 2018 Development Survey results

• Deduce possible outcomes and what can be learnt from the various sections in technology.

• Use the different deductions find out system requirements needed to achieve the desired goal.

## **2.3 Methodology, techniques and tools:**

The project management team agreed to use the agile method methodology as the team-based technique to achieve the goal. This technique was chosen because of its flexibility and efficiency in dealing with change.

The project management team plans on using different data science techniques in R such as Naïve Bayes classifier ,linear regression, KNN algorithm etc.

The team also plans on using data tools in R such as data visualization, random generation and advanced data visualization to represent data in simplified graphical forms for easy analysis.

The team will use Git and Git-hub for version control to monitor each team member’s contribution towards the project.

## **2.4 Project Activities**

The following are some of the activities to be carried out during our project:

• Project planning; this includes identifying all project tasks and estimating the completion time and cost of each.

• Project scheduling; this involves the creation of a specific timetable, usually in the form of charts that show tasks, task dependencies, and critical tasks that might delay the project. Scheduling also involves selecting and staffing the project team and assigning specific tasks to team members.

• Project monitoring requires guiding, supervising, and coordinating the project team’s workload. The project manager must monitor the progress, evaluate the results, and take corrective action when necessary to control the project and stay on target.

• Project reporting includes regular progress reports to management, users, and the project team itself. Effective reporting requires strong communication skills and a sense of what others want and need to know about the project.

## **2.5 Benefits**

The project is aimed at improving service delivery at Stack Overflow such as developer marketing, technical recruiting, market research and enterprise knowledge sharing.

## **2.6 Anticipated Outcomes**

• Improve developer marketing at Stack Overflow

• Improve technical recruitment at Stack Overflow

• Improve market research at Stack Overflow

• Improve enterprise knowledge sharing at Stack Overflow

# **3.0 BUDGET**

The project management team requests for support through funds to facilitate project activities.

# **4.0 CONTACT INFORMATION**

For more information, please contact the project manager on:

Mobile +256 700 731 763

Mobile +256 706 949 897

Mobile +256 779 014 758

Email: mabiriziad@gmail.com.

# **4.1 REFERENCES**

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