MAKERERE UNIVERSITY

COLLEGE OF COMPUTING AND INFORMATION SCIENCES

DEPARTMENT OF NETWORKS

BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING (YEAR 2)

RECESS TERM 2 (BSE 2301)

PROJECT REPORT FOR:

STAR WARS MOVIE SCRIPTS ANALYSIS PROJECT

GROUP ONE

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|  |  |  |  |
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SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE

SOFTWARE ENGINEERING RECESS PROJECT BSE 2301

25th JULY 2018

STAR WARS MOVIE SCRIPTS ANALYSIS PROJECT

Version 1.0

|  |  |
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|  |  |

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 23July, 2018 | 0.01 | Initial Draft |  |
|  |  |  |  |

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# INTRODUCTION

The Star Wars Movie Script analysis system analyses and visualizes the star wars movie script data to determine the insights of the movie, main characters plus their emotions and what the movie is about. It’s based in R, a free and open source integrated development environment for R programming language installed on a computer with the Shiny packages and other relevant packages. The objective of the system is to provide a visual and statistical representation of the Star Wars Movie Scripts which will assist movie writers to know the rating of each movie episode in relation to the emotions of the characters in order to focus his writing to the viewers’ likes accordingly.

## THE PURPOSE OF THIS DOCUMENT

This document provides overall description of The Star Wars Movie Script Analysis system including the work experience of each team member, team organization, project result, among others

## INTENDED AUDIENCE

This system is mainly to the customers who are the movie writers and movie viewers , the project team and any other party that would wish to improve or add on this project.

## SCOPE

This system provides analytical and statistical model of the star wars movie scripts in order to conclude the writer’s inference and insinuation of each character basing on their emotions and script ratings. It therefore, must be user friendly to the movie writers in terms of uploading and processing the text scripts.

## DEFINITIONS AND ACRONYMS

### Definitions

|  |  |
| --- | --- |
| Key word | Definition |
| Movie scripts | This is the text to be visualized and analyzed |
| Writers | This refers to the movie script author |
|  |  |
|  |  |

### Acronyms and abbreviations

|  |  |
| --- | --- |
| Acronym/ abbreviations | Definition |
| SWAS | Star Wars Movie Script analysis |
|  |  |
|  |  |
|  |  |

## REFERENCES

Link: [1] <http://drive.google.com/file/d/1vj8H1_kBvbkoXWTTvoW4JNKtjXMOeYC/view>

# BACKGROUND AND OBJECTIVES

This is a new self contained system that has been developed to give the movie writers and other users visual and analytical information about movie scripts. The user requires a machine with r installed on it plus shinny and other related packages to use this system. It majorly provides the analytical and statistical information of any given text data in order to give clear understanding that will lead to the best conclusion regarding the text data.

# ORGANISATION

## Project manager

Ongom Daniel is the project manager

## Project group

|  |  |
| --- | --- |
| Name | Responsibility |
| Ongom Daniel | Project manager, analysis, implementation, designing and documentation |
| Nabwire Babra | analysis, implementation, designing , testing and documentation |
| Nanyanzi Victo | analysis, implementation, designing , testing and documentation |
| Kabeni Emmanuel | analysis, implementation, designing , testing and documentation |
| Thakkar Brinda | analysis, implementation, designing , testing and documentation |

## Steering group

Noah Kange (supervisor)

Isaac Mbabazi (supervisor)

## Customers

Movie writers like: George Lucas, Irvin Kershner, Richard Marquand

# MILESTONE

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Id | Milestone description | Responsible party | Finished week | | | | metr | rem |
| Plan | forecast | | actual |
| Week | +/- |
| M-001 | Project description and plan |  | 12th June,2018 | 0 | 0 | 12th June,2018 | y | good |
| M-002 | Requirement definition |  | 19th June,2018 | 0 | 0 | 19th June,2018 | Y | Good |
| M-003 | Project design |  | 26th June,2018 | 0 | 0 | 26th June,2018 | Y | Good |
| M-004 | Revise project plan |  | 2nd July,2018 | 0 | 0 | 2nd July,2018 | Y | Good |
| M-005 | Project status and presentation |  | 18th July,2018 | 0 | 0 | 18th July,2018 | Y | good |
| M-006 | Final presentation and delivery |  | 25th July,2018 | 0 | 0 | 25th July,2018 | y | good |

## REMARKS

|  |  |
| --- | --- |
| Remark Id | Description |
| R-001 | It was a good experience learning to create word press blogs for software projects |
| R-002 | It was amazing plotting text data other than numerical data |
| R-003 | It was good experience coding in R |
| R-004 | It was fun to work on project as a team |

# PROJECT RESULTS

## Requirements

### Requirement Compliance Matrix

|  |  |  |
| --- | --- | --- |
| Id | Requirement description | completed |
| SWAS-1.0 | User can initialize the system | yes |
| SWAS-1.1 | The user can upload the text data. | Yes |
| SWAS-s1.2 | User can view analyzed and statistical output of the text data | Yes |
| SWAS-2.0 | Project leader Requirements. | Yes |
| SWAS-2.1 | Project leader should be able to define baseline plan. | Yes |
| SWAS-2.2 | Project leader should be able to manage project group. | Yes |
| SWAS-2.3 | Project leader should be able to monitor individual work. | Yes |

*The key to the above table:*

*Yes (completely implemented)*

*No (not implemented at all)*

*Partially (partially implemented, more description under Remarks subsection)*

*Unknown (completion status not known)*

*Dropped (requirement was dropped during the course of the project)*

### Requirements Compliance Summary

|  |  |
| --- | --- |
| Total number of requirements | 7 |
| Number of requirements implemented | 7 |
| Requirements partially fulfilled | 0 |
| Requirements not fulfilled | 0 |
| Requirements dropped | 0 |

## Work Products and Deliverables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| To | Output | Planned week | Promised week | Late =/- | Delivered week |
| Movie writers | Project Description & Plan | W3 | W3 | NO | W3 |
| Movie writers | Requirement Definition | W4 | W4 | NO | W4 |
| Movie writers | Design Project | W4 | W4 | NO | W4 |
| Movie writers | Revised Project Plan | W5 | W5 | NO | W5 |
| Movie writers | Project Status Presentation | W6 | W6 | NO | W6 |
| Movie writers | Final Presentation & delivery | W6 | W6 | NO | W6 |

### Remarks

|  |  |
| --- | --- |
| Remark Id | Description |
| R-001 | Project Deliverables were on time |

# PROJECT EXPERIENCES

## Positive Experiences

The main experience from Star Wars Movie Script Analysis Project was working as a group and sharing knowledge about text data analysis including sentiments.

## Improvement Possibilities

Given enough resource according to requirements we can make more project available to all intended customer.

# FINANCIALS

## Project cost summary

|  |  |
| --- | --- |
| Planned cost | Ush: 20000 |
| Actual cost | Ush: 35000 |

## Work per Member

# METRICS

## Milestone Metrics

|  |  |  |
| --- | --- | --- |
| Completed as planned/earlier | Total | Timeliness |
| 7 | 7 | Achieved |

## Effort metrics

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | Actual effort | Planned effort | Deviation(%) |
| Requirements Gathering | 95 | 70 | 35.71 |
| Analysis | 90 | 95 | -5.25 |
| Implementation | 105 | 120 | -12.5 |
| Testing | 122 | 130 | -6.15 |
| Total | 417 | 415 | 11.81 |

|  |  |
| --- | --- |
| Effort estimation accurancy (%)  *(1000\*(1 - abs(Actual – Planned)/Actual))* | 99.52 |