# ABSTRACT

# INTRODUCTION

## PURPOSE

Our project Truth, is a news verification system. It focuses on the integrity of the voting of news articles with Blockchain technology. Verified news articles are added to a database and then displayed under verified articles, while false articles are discarded. A user builds credibility by verifying articles.

## SCOPE

Truth consist of a web service, a mobile application and a website working in unison. The mobile application, website and web application communicates with the web service. The mobile application only display the verified articles. The website registers new clients, displays articles and gives the users the opportunity to verify the article by giving it a rating out of four. The admin of the page are the only users who can add new articles. All of the components are hosted on an EC2 instance. Our project is designed for an audience with little technical knowledge.

# BACKGROUND

# SOFTWARE SPECIFICATION AND IMPLEMENTATION

## MOBILE APPLICATION

Our mobile application is written in Java through Android Studio. The application does not allow registration or login. These features are available on the website only. The application does however display verified articles.

## 4.2 WEBSITE

The website is written in HTML, JavaScript and CSS. The website has two sections: the general users’ section and the admin section. The general user can read and then validate the articles.

## WEBSERVICE

The webservice is written in PHP.

## CLOUD

Our project is on Amazon’s AWS on an EC2. The EC2 host an Ubuntu server.

## 4.3 BLOCKCHAIN

We used Multichain as our Blockchain creator.

# TECHNICAL DETAILS

## TECHNOLOGIES USED

We have used PHP, HTML, Javascript, Java, CSS, Multichain.

## PROBLEMS FACED

The multichain software has little online support, leaving us with many questions which we had to answer ourselves. This took a lot of our time. Another time consuming task was the fact that we had to learn a lot of new languages to create our project. We also struggled with the connection of the chains.

# LESSONS LEARNED

## IMPORTANCE OF EFFECTIVE TIME MANAGEMENT

During the project, we constantly struggled with time management. The time assigned to each task was not enough, so the phases overlapped each other.

## TEAM WORK

When the whole team is not working effectively, the phases are not met in time. The project is a project with too much to learn for only one person. The work has to be divided in manageable pieces for each member. The work breakdown structure has changed through the project and each member adjusted quickly with the new sections assigned to them. The team spirit was positive for most of the project, creating a peaceful, respectful environment for all.

## FAILING FAST

# BUSINESS CASE

## EXECUTIVE SUMMARY

## OBJECTIVES OVERVIEW

## MARKET ANALYSIS

## ASSESMENT OF BENEFITS

## OPTION ANALYSIS – RECOMMENDED OPTION

## KEY DEPENDENCIES AND ASSUMPTIONS

## RISK AND SENSITIVITY ANALYSIS

## RESOURCE REQUIREMENTS AND COSTS

# CONCLUSION

# APPENDICES

## APPENDIX A: TEAM INFORMATION

## APPENDIX B: USER MANUAL