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# Functional Requirements

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Project: Insurance profiling from social media  
Client: RetroRabbit

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# 1 Introduction

This document contains information on the development of a system to generate insurance profiles based on social media inputs. The project is being developed for Retrorabbit as part of the COS301 module at the University Of Pretoria.

# 2 Vision

The primary focus of this project is to generate quick, reliable insurance/risk profiles from user's social media information. The profile generated will be ideally used for portable possession insurance (cellphones, laptops, purses). Insurance profiling and risk analysis often require large amounts of data to generate in-depth profiles, our project seek the means to eliminate the need for vast amounts of data gathering by using a user's social media information. A user would log into our system, provide the necessary permissions and our engine will generate a risk profile for that person based on certain criteria. The generated profile can assist insurers to create more accurate risk profiles or clients to get personally tailored quotes, instantly.

# 3 Scope of system

The system will primarily be web-based. A user visiting the website will request a quote and be prompted to log into Facebook. A service will then acquire data from the users facebook profile. This data will be fed into the profiling engine, which will process the data to create a risk profile. This risk profile will be used to generate a quote, which will then be displayed to the user on the website.

# 4 Architectural requirements

## 4.1 Access channel requirements

## 4.2 Quality requirements

–(CLIENT'S)

### 4.2.1 Performance

### 4.2.2 Security

### 4.2.3 Scalability

### 4.2.4 Integrability

–(Template recommends these further)

**4.2.5 Reliability****4.2.6 Flexibility****4.2.7 Maintainability****4.2.8 Auditability****4.2.9 Cost****4.2.10 Usability****4.3 Integration requirements****4.4 Architecture Constraints**

The client limited our development stack technologies to:

- An ASP.net web solution with a Microsoft SQL Server database system.
- A NodeJS web solution with a PostgreSQL database system.

Other constraints in terms of architecture include:

- Browser independent as to ensure any web-client can make use thereof.
- Operating system independent.
- The system should be as time efficient as possible to ensure a user gets a quote in less than 5 minutes – (can state this in quality requirements -Performance, as per proposal pdf)
- No PHP code as per client's request.

**5 Functional Requirements****5.1 Use case name****5.1.1 Use case prioritization****5.1.2 Use case service contracts****5.1.3 Process specification****5.2 Domain model****5.3 Open Issues**