Tools and Technology

# Technology

To bring our application to fruition, we are going to need significant infrastructure. We can take advantage of cloud-based Infrastructure as a service, as this will be the most scalable and cost-effective way forward.

We will require a web server. The web server we have decided on using Amazon Web Services (AWS) for this infrastructure with Elastic Compute Cloud (EC2). We will run the open-source apache web server with ubuntu 18.04, which we can also purchase as a service from AWS.

For the translation functionality of our application, we will require a Neural Machine Translation Application Programming interface (API). The project will move forward with the Amazon Translation service, as this offers us a scalable solution and good value for money.

The application will require a database to store customer data such as personal details, billing information and restaurant menus. We have chosen to use Oracle’s MySQL cloud-based service. MySQL comes in as a lower cost option than the Amazon RDS and is a good fit for our business model.

# Coding

To build the application, we will require coding expertise to allow the application to behave as we would require it to. The following coding will be required:

Hypertext Markup Language, Cascading style sheets and Javascript will be required for the company’s web site. Java will be used to code the android application. Xcode will be required to create an iPhone version of the application.