MSA
Microsoft Student Accelerator

Please note: This case study is fictional and is solely for the purpose of assessment.
Due 25th November 2016 – Assessment Day

Contoso Bank

Project Description

Contoso bank is undergoing a digital transformation. They have recently closed many branches in rural Redmond due to a lack of people visiting. However, market research shows there is significant demand for natural engagement with the bank. The bank has been looking at solutions to this and has recently discovered the world of bots. They have called you in to develop a prototype.

Basic Requirements

- Build a bot using the Microsoft Bot Framework
- Build a database, schema and dummy data to be used by the bot (EasyTables with SQL)
- Integrate the bot with the database you have created (Create, Read, Update, Delete)
- The bot must be built using NodeJS or C#
- The bot must be hosted on Microsoft Azure
- Use source control efficiently and correctly (branches, continuous integration, etc)
- The bot should be published (can be in test mode) to a social media connection
- Offer a personalized experience to the user using state service.
- The bot should use a relevant UI (Cards, presentation of data in a friendly manner, etc)
- An API call to a relevant, external API (e.g. currency rate, stocks, etc)

Additional Features

Complete as many of:
- A method of authentication and authorization with the database
- LUIS natural language integration
- Interaction with the bot in methods other than just text

Advanced Considerations

- Integration with a mobile, cross platform app
- Integration with Cognitive Services
- Usage of custom bank branding that is integrated into the bot
- Business justification for the use of features

Your task is to develop a solution for Contoso Bank based on the information above.

Fabrikam Food

Project Description

Fabrikam food is a small boutique restaurant in Redmond that caters to tech saavy millennials that love food, but also love tech. Their user base uses a variety of devices and are generally on the go. Fabrikam wants to offer their customers a more personalized experience on the go to increase visits to their store. They have called you in to develop a mobile app prototype to enable this.

Minimum Requirements

- Build a mobile app using Xamarin Forms
- Build a database, schema and dummy data to be used by the app (EasyTables with SQL)
- Integrate the app with the database you have created (Create, Read, Update, Delete)
- The database must be hosted on Microsoft Azure
- Use source control efficiently and correctly (branches, continuous integration, etc)
- The app should work on either iOS or Android (Either device or emulator)
- Offer a personalized experience to the user
- The app should use a relevant UI (Presentation of data in a friendly manner, etc)
- An API call to a relevant, external API (e.g. Uber API, Maps API to calculate distance)

Additional Features

Complete as many of:
- A method of authentication and authorization with the database
- Facebook or social media integration
- Use of device sensors and hardware

Advanced Considerations

- Integration with a bot
- Integration with Cognitive Services using device camera
- Usage of custom restaurant branding that is integrated into the app
- Business justification for the use of features

Your task is to develop a solution for Fabrikam Foods based on the information above.