TEESSIDE UNIVERSITY

SCHOOL OF COMPUTING

**SOFTWARE ARCHITECTURE (COM3041-N) TEAM DOCUMENTATION**

Team Name: **E**

Diagrams with appropriate notes and justification to evidence that …

* *The architecture (components and their technology, interfaces, connectivity, protocols, and deployment within the infrastructure) has been documented clearly and any deviations in the implementation identified.*
* *The specifications of the components are fit-for-purpose and fit-for-use.*
* *The architectural style is reasonably clear and it appears plausible, maintainable and scalable for the future.*
* *Examples are given of decisions faced and choices taken, and the rationales for them are valid.*

Our solution uses an N-tier architecture, splitting the separate components into separate solutions that can be individually deployed and scaled when needed. Each component of the system is intended to be deployed to Azure for hosting.

The caching application was created as we found that some of the web services provided weren’t very stable and could result in a significant decrease in performance and reliability if accessed directly. The caching application is run as a web job on Azure every hour, this makes sure that any data displayed is an hour old at the most.

The Web application is an MVVM application, it uses Web API controllers to interact with the necessary web services and