TEESSIDE UNIVERSITY

SCHOOL OF COMPUTING

**SOFTWARE ARCHITECTURE (COM3041-N) WORK PACKAGES**

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| Component (from Diagrams) | System Requirements  (from Requirement Analysis) | Key Features  (from Requirement Analysis) | Interfaces to Other Components (from Diagrams) |
| Web API Controllers | Securely authenticate and authorise staff users. | Getting box items from the repositories  Getting boxes from the public facing web services  Submitting orders to the web services  Authenticating users with Azure AD Authentication | -Repository  -public facing web services  -jQuery Ajax Controllers |
| jQuery Ajax Controllers |  | Passes data between the Web API Controllers and Knockout ViewModels | -Web API Controllers  -Knockout ViewModels |
| Knockout ViewModels | Create a selection box design by selecting one or more items and a suitable box/wrapping from the approved providers, optionally using an existing design as an initial template.  Modify the price of a selection box design  Modify the visibility of a selection box design  Monitor both the availability (i.e. if it can be purchased) and visibility (i.e. if staff want it to be listed on the public-facing system) to our customers of our selection box designs  Mock payment approval / refusal  Browse all visible selection boxes with suitable filtering and searching  Purchase an available selection box, specifying a recipient and optional message for them  Only take payment for a selection box if its components have been successfully acquired | Allows filtering and searching of items on the home page  Provides validation on pages when creating boxes, submitting an order and submitting payment information  Dictates what elements are displayed on a view  Stores the item being purchased in cookies | -jQuery Ajax Controllers  -jQuery Views |
| jQuery Views |  | Used for creation of viewmodels and some event binding of buttons | -Knockout ViewModels  -HTML Views |
| HTML Views |  | Displays and reflects the information provided by the Knockout ViewModel | -jQuery Views |