

**ShipIT, An Interoffice Shipping Application**CS633 Software Quality, Testing and Security Management  
Term Project; Module 2 Deliverables  
Group #6  
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# *Table of Contents*

*Table of Contents* 1

*Deliverables* 2

A. Module 1 2

B. Module 2 2

C. Module 3 2

D. Module 4 2

E. Module 5 2

F. Module 6 2

*1. Project scope* 3

1.1 Overview 3

1.2 Roles and Responsibilities 3

1.2 Milestone Plan 3

1.3 Assumptions 4

*2. Personas* 5

*2.1 Persona#1: SHIPPER & RECEIVER* 5

*2.2 Persona#2: Receiver* 6

*2.3 Persona#3: Interoffice Courier* 7

*2.4 Persona#4: Shipping Manager/ADMIN* 8

*3. Requirements* 9

*4. Requirements in Pivotal Tracker* 11

*5. Development Environment* 11

*References* 12

# *Deliverables[[1]](#footnote-1)*

## Module 1

* Register with Pivotal
* Create GIT account
* Propose Project Scope
* Propose team's composition

## Module 2

* Document Personas
* Module 3 Develop Requirements in Pivotal
* Start Coding

## Module 3

* Provide Estimation record
* Compile CI List

## Module 4

* Document Selected Use Cases
* Converge on a Components Interaction diagram
* Document State Transitions

## Module 5

* Transform mock-ups into wireframes
* Complete Coding

## Module 6

* Develop test cases in a standard format
* Reduce data-driven combinations using Allpairs
* Submit draft report
* Present basic functionality of Term Project
* Final report due Saturday, March 4, 6:00 AM ET

# *1. Project scope*

# 1.1 Overview

ShipIT is a lightweight inter-office shipping application that was developed in-house for BigCorp to alleviate problems that were experienced routing packages between departments. ShipIT provides a shipper the ability to register one or more packages for pickup. Inter-office couriers are notified of all pickups with source and destination information. Recipients use ShipIT to confirm receipt. Finally, shipping managers/administrators rely on ShipIT to provide real time information on all packages.

# 1.2 Roles and Responsibilities

|  |  |  |
| --- | --- | --- |
| Individual | Role | Primary Responsibilities |
| Steven Hoffman | Team Lead | * Facilitates Meetings * Tracks Actions * Weekly Submissions |
| Brian Calhoun | Senior Developer | * Architecture * Platform Selection * Guides Resolution of Merge Conflicts |
| Alicia Gallagher | Usability Lead | * Creates Wireframes * UX Design |
| Eunjou Kim | Test Expert | * Creates and Executes test cases |
| Carolina Torres | Business Analyst | * Requirements Gathering * Process Modeling/Mapping |

# 1.2 Milestone Plan

| % Complete | Task Name | Due | Responsible |
| --- | --- | --- | --- |
| 100% | **Week 1 Deliverables** | **Mon 1/23/17** |  |
| 100% | Register with Pivotal | Tue 1/17/17 | All |
| 100% | Create GIT Account | Tue 1/17/17 | All |
| 100% | Propose Project Scope | Mon 1/23/17 | All |
| 100% | Propose Team's Composition | Mon 1/23/17 | All |
| 100% | Submit Deliverables | Mon 1/23/17 | Steve H. |
| 100% | **Week 2 Deliverables** | **Mon 1/30/17** |  |
| 100% | **Document Personas** | **Sun 1/29/17** | **Carolina T.** |
| 100% | **Develop Requirements in Pivotal** | **Thu 1/26/17** | **Carolina T.** |
| 100% | **Start Coding** | **Thu 1/26/17** | **Brian C.** |
| 100% | **Feedback from Sunita** | **Mon 1/30/17** | **All** |
| 100% | Submit Deliverables | Mon 1/30/17 | Carolina T. |
| 0% | **Week 3 Deliverables** | **Mon 2/6/17** |  |
| 0% | Provide Estimation Record |  | Carolina T. |
| 0% | Compile CI List |  | Steve H. |
| 0% | Submit Deliverables |  | Steve H. |
| 0% | **Week 4 Deliverables** | **Mon 2/13/17** |  |
| 0% | Document Selected Use Cases |  | Alicia G. |
| 0% | Components Interaction Diagram |  | Brian C. |
| 0% | Document State Transitions |  | TBD |
| 0% | **Week 5 Deliverables** | **Mon 2/20/17** |  |
| 0% | Transform Mock-Ups into Wireframes |  | Alicia G. |
| 0% | Complete Coding |  | Brian C. |
| 0% | **Week 6 Deliverables** | **Mon 2/27/17** |  |
| 0% | Develop Test Cases in Standard Format |  | Eunjou K. |
| 0% | Reduce Data Driven Combinations using Allpairs |  | TBD |
| 0% | Submit Draft Report |  | Steve H. |
| 0% | Present Basic Functionality of Term Project |  | All |
| 0% | **Final Report** | **Sat 3/4/17** |  |
| 0% | Provide Final Feedback/Comments | Thu 3/2/17 | All |
| 0% | Deliver and submit Final Report | Sat 3/4/17 | Steve H. |

# 1.3 Assumptions

* The application relies on single sign-on (SSO) for user authentication, so users do not have to explicitly log into the ShipIT desktop application.
* A list of user accounts is also populated within the application from the organization’s directory services database (Active Directory, etc.) via lightweight directory access protocol (LDAP).
* SSO and LDAP user account population is simulated via a list of personas found in one or more JavaScript Object Notation (JSON) files.

# *2. Personas*

# *2.1 Persona#1: SHIPPER & RECEIVER*

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwjDxIHshdnRAhWGNSYKHQUlBrMQjRwIBw&url=http://www.sevenlakes.com/customer.php&psig=AFQjCNHCsNUv4xZYFKSqFLDbmhSGRjNrbw&ust=1485287621800173)

Sr. Financial Analyst [Digital image], 2017

**Dan Cummings**

**Male, 40 years old.**

**Background:** Dan is a Sr. Financial Analyst that works in the Finance Department of BigCorp. He is responsible for supporting the comptroller on month end financial reporting activities and assisting with tasks related to auditing other departments in the organization.

**Scenarios:** The comptroller asks Dan to complete an audit scorecard for the month end reporting. This tasks requires to send a formal physical letter to each head of the departments and have it returned signed. Dan recalls that recently a new application has been developed at BigCorp that allows him to prepare and request a shipment. Using this application Dan can request a shipment of the mail/parcel, track the item and in case he is expecting to receive back the signed letter he can confirm reception of items as well.

**Goals:**

* To create/cancel/edit a shipment request
* To track shipment
* To confirm reception of shipment

**Ideal Features:**

* Ability to receive email notification once the status of shipment has changed
* Ability to see in one screen a list of shipments created and their statuses

# *2.2 Persona#2: Receiver*

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjgx47QjdnRAhXEKiYKHVt3BTwQjRwIBw&url=http://setxfoodbank.org/staff-and-board/&bvm=bv.144686652,d.eWE&psig=AFQjCNEnaSVJoXuWT7K1XXAi8DfSOSrLnQ&ust=1485289728809987)

Data Entry Clerk [Digital image], 2017

**Teresa Portman**

**Female, 50 years old.**

**Background:** Teresa was hired temporarily by BigCorp to assist the Finance Department with data entry tasks. She has been assigned to a project that requires data entry into excel for further statistical analysis.

**Scenarios:** The controller explains to Teresa her functions on how she will be recording data into specific format in an Excel spreadsheet. The data does not currently exist in an electronic format and therefore Teresa will receive physical invoices from the Accounts Payable Department recurrently. Teresa is instructed that using the ShipIT Application she will be able to check the status of the mail to be sent from the Accounts Payable Department and that she will also have the responsibility to confirm reception of the shipments.

**Goals:**

* To track shipment
* To confirm reception of shipment

**Ideal Features:**

* Ability to receive email notification once the status of shipment has changed
* Ability to see in one screen a list of shipments created and their statuses
* Ability to print confirmation of receipt

# *2.3 Persona#3: Interoffice Courier*

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwj0mJ_ajtnRAhUKSSYKHQBhCB4QjRwIBw&url=http://www.expeditedcouriergroup.com/mail--interoffice---bank-deliveries.html&bvm=bv.144686652,d.eWE&psig=AFQjCNHzPveRmL8a17a1JrJAneiR1g_M3g&ust=1485290006495608)

Interoffice Courier [Digital image], 2017

**John Armstrong**

**Male, 22 years old.**

**Background:** John works for the supplier courier that has the current contract with BigCorp to provide the interoffice shipping. John is responsible for picking up the mail/parcel and delivering the items to the desired internal destination.

**Scenarios:** John daily picks-up and delivers internal mail/parcel within BigCorp. He reviews daily the ShipIT application to organize his route based on the location of the departments. Using the application John reviews a list of items that currently have a tracking number assigned and the appropriate status for pick up. Once John picks up the mail/parcel he can mark the item as “Picked-up” and in the same way once he completes the delivery he can mark it as “Delivered”.

**Goals:**

* To obtain information to organize shipment routes
* To track shipment
* To confirm pick-up and delivery of shipments

**Ideal Features:**

* Ability to receive email notification once the status of shipment is ready for pick-up
* Ability to see in one screen a list of shipments created, their statuses and locations
* Ability to confirm shipment has been picked-up
* Ability to confirm shipment has been delivered

# *2.4 Persona#4: Shipping Manager/ADMIN*

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwimuo3WldnRAhWKTCYKHcXQCksQjRwIBw&url=http://abcotechnology.edu/programs/network-administrator-systems-engineer/&bvm=bv.144686652,d.eWE&psig=AFQjCNHdZKHuW6Fv1LxLWbVtcZMwc7KZkw&ust=1485291843277955)

Admin [Digital image], 2017

**Dayne Bratsman**

**Male, 35 years old.**

**Background:** Dayne is the admin of ShipIT the new software application developed by BigCorp to provide the interoffice shipping. Dayne is also the admin for other tools in the company like SharePoint sites and he works directly with HR to obtain the data of employees.

**Scenarios:** Dayne receives communication that several employees have been recently hired by BigCorp and that these individuals need to be granted access to the ShipIT application. Using the new application Dayne can add the employees, give them a ShipIT id number, identify their department and define their roles in the system.

**Goals:**

* To add/remove/edit employees and their roles
* To add/remove/edit couriers

**Ideal Features:**

* Ability to have integration with the HR database to obtain employee information
* Ability to allow employees to sign-in to application using the company email and same password utilized for company network.

# *3. Requirements*

| **ID** | **Epic/Story** | **Description** | **Story Points\*[[2]](#footnote-2)** |
| --- | --- | --- | --- |
| 1 | **Epic** | **As a Shipper&Receiver, I can create a shipment of one or more packages for pickup using ShipIT, so that the interoffice courier is informed and completes my shipment.** |  |
|  | Story | As a Shipper&Receiver, I can create shipment event that includes Date, Destination Name, Destination Department, Originator Name and Originator Department, so that the interoffice courier has the information necessary to complete the shipment. |  |
|  | Story | As a Shipper&Receiver, I can edit/cancel a shipment event, so that corrections can be completed for the interoffice courier to have the most accurate information necessary to complete the shipment. |  |
| 2 | **Epic** | **As a Shipper&Receiver, I can track a shipment of one or more packages, so that I have information of the status of my shipment.** |  |
|  | Story | As a Shipper&Receiver, I can see a list of items in transit that includes tracking #, status, Date shipment was created, Date Delivered, Destination Name, Destination Department, Originator Name and Originator Department so that I have in one place all the information of the status of my shipment. |  |
| 3 | **Epic** | **As a Shipper&Receiver, I can confirm a shipment of one or more packages, so that the shipper has confirmation that the shipment was completed successfully.** |  |
|  | Story | As a Shipper&Receiver, I can select a confirmation button corresponding to a tracking number or more, so that I can select which items have confirmation of been received. |  |
|  | Story | As a Shipper&Receiver, I can print confirmation that an item has been received, so that I can have a physical receipt for record keeping or in case a proof is required. |  |
| 4 | **Epic** | **As a Receiver, I can track a shipment of one or more packages, so that I have information of the status of my shipments.** |  |
|  | Story | As a Receiver, I can see a list of items in transit that includes tracking #, status, Date shipment was created, Date Delivered, Destination Name, Destination Department, Originator Name and Originator Department so that I have in one place all the information of the status of my shipment. |  |
| 5 | Epic | **As a Receiver, I can confirm a shipment of one or more packages, so that the shipper has confirmation that the shipment was delivered successfully.** |  |
|  | Story | As a Receiver, I can mark one or more tracking numbers as confirmed, so that I can select which items have confirmation of been received. |  |
|  | Story | As a Receiver, I can print confirmation that an item has been received, so that I can have a physical receipt for record keeping or in case a proof is required. |  |
| 6 | Epic | **As an Interoffice Courier, I can track the information of one or more shipments, so that I have the latest information to complete the shipments.** |  |
|  | Story | As an Interoffice Courier, I can see a list of items in transit that includes tracking #, status, Date shipment was created, Date Delivered, Destination Name, Destination Department, Originator Name and Originator Department, so that I have in one place all the information necessary to complete the shipment. |  |
|  | Story | As an Interoffice Courier, I can mark a shipment as picked up, so that a status and tracking of the shipment can be updated. |  |
|  | Story | As an Interoffice Courier, I can mark a shipment as delivered, so that a status and tracking of the shipment can be updated. |  |
| **7** | **Epic** | **As an Admin, I can add/ remove employees to/from the ShipIT application, so that employees have the appropriate access to the application** |  |
|  | Story | As an Admin, I can add a BigCorp Employee to the ShipIT application populating his/her name, assigning an ID, populating corresponding Department and role, so that new authorized users have the appropriate access to the application |  |
|  | Story | As an Admin, I can remove a BigCorp Employee from the ShipIT by marking the employee as removed, so that users can be removed from the application if necessary. |  |
| **8** | **Epic** | **As an Admin, I can add/ remove interoffice couriers to/from the ShipIT application, so that couriers have the appropriate access to the application** |  |
|  | Story | As an Admin, I can add a courier to the ShipIT application populating the company name, courier ID, address, telephone and assigning it the role of courier, so that authorized couriers have the appropriate access to the application |  |
|  | Story | As an Admin, I can remove a courier from the ShipIT by marking the courier as removed, so that couriers can be removed from the application if necessary. |  |

# *4. Requirements in Pivotal Tracker*

The Epics and Stories for the ShipIT project are also located in Pivotal Tracker.

For access to the ShipIT pivotal project please refer to the following link:

<https://www.pivotaltracker.com/n/projects/1957935>

# *5. Development Environment*

The ShipIT application will be a desktop application created with Windows Presentation Foundation in Visual Studio 2015. A Model-View-ViewModel (MVVM) architecture will be attempted to build the application. The C# programming language will be utilized for building classes and constructing business logic while Extensible Application Markup Language (XAML) will be leveraged to develop the user interface, or views. GitHub is currently in use for source control and collaboration.

For access to the ShipIT Git repository please refer to the following link:

<https://github.com/calhooligan/ShipIT>

# *References*

Sr. Financial Analyst [Digital image]. (2017, January). Retrieved from http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwjDxIHshdnRAhWGNSYKHQUlBrMQjRwIBw&url=http%3A%2F%2Fwww.sevenlakes.com%2Fcustomer.php&psig=AFQjCNHCsNUv4xZYFKSqFLDbmhSGRjNrbw&ust=1485287621800173

Data Entry Clerk [Digital image]. (2017, January). Retrieved from http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjgx47QjdnRAhXEKiYKHVt3BTwQjRwIBw&url=http%3A%2F%2Fsetxfoodbank.org%2Fstaff-and-board%2F&bvm=bv.144686652,d.eWE&psig=AFQjCNEnaSVJoXuWT7K1XXAi8DfSOSrLnQ&ust=1485289728809987

Interoffice courier [Digital image]. (2017, January). Retrieved from http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=0ahUKEwj0mJ\_ajtnRAhUKSSYKHQBhCB4QjRwIBw&url=http%3A%2F%2Fwww.expeditedcouriergroup.com%2Fmail--interoffice---bank-deliveries.html&bvm=bv.144686652,d.eWE&psig=AFQjCNHzPveRmL8a17a1JrJAneiR1g\_M3g&ust=1485290006495608

Admin [Digital image]. (2017, January). Retrieved from http://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwimuo3WldnRAhWKTCYKHcXQCksQjRwIBw&url=http%3A%2F%2Fabcotechnology.edu%2Fprograms%2Fnetwork-administrator-systems-engineer%2F&bvm=bv.144686652,d.eWE&psig=AFQjCNHdZKHuW6Fv1LxLWbVtcZMwc7KZkw&ust=1485291843277955

1. This section will be removed prior to the final submission. [↑](#footnote-ref-1)
2. The Story Point column in this table has been included only in preparation for future deliverables. It shall be populated when estimations are completed. [↑](#footnote-ref-2)