

**ShipIT, An Interoffice Shipping Application**CS633 Software Quality, Testing and Security Management  
**Term Project—Version 2.0  
ESTIMATION**Group #6  
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## Estimation Record

| **Phase** | **Deliverable** | **Size Measure** | **Effort Per Size Measure (person/hrs)** | **Size** | **Effort (person/hrs)** | **Fibonacci** | **Actuals** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Planning** | Definition of Scope | #Attributes | 0.50 | 4 | 2.00 | 3 | 2 |
| **Requirements** | Definition of Users (personas) | #Roles | 1.00 | 4 | 4.00 | 5 | 6 |
| Definition of Requirements | #Requirements | 0.25 | 23 | 5.75 | 8 | 5 |
| Entering Stories into Pivotal | #Stories | 0.08 | 23 | 1.84 | 2 | 1 |
| **Configuration Management** | Configuration Items List | #CI items | 0.33 | 12 | 3.96 | 5 | 5 |
| **Estimation** | Estimation Record | #Activities | 0.25 | 16 | 4.00 | 5 | 6 |
| **Design** | State Transition Diagram | #States | 0.75 | 4 | 3.00 | 5 | 3 |
| Definition of Use Cases | #Use cases | 2.00 | 6 | 12.00 | 13 | 6 |
| Components Interaction Diagram | #Components | 3.00 | 1 | 3.00 | 5 | 2 |
| Creation of Wireframes | #Wireframes | 0.50 | 4 | 2.00 | 3 | 5 |
| **Implementation** *Building ShipIT* | Creating Screens | #Screens | 2.00 | 4 | 8.00 | 13 | 6 |
| Creating Classes | #Models | 0.25 | 4 | 1.00 | 2 | 30 |
| Establish Relations\* | #Connections | 24.00 | 1 | 24.00 | 34 | 3 |
| Database\* | #Tables | 1.00 | 4 | 4.00 | 5 | 10 |
| **Testing** | Test Cases | #Test cases | 0.50 | 19 | 9.50 | 13 | 4 |
| Defects from Testing Recorded | #Defects | 0.08 | 3 | 0.25 | 1 |  |
| **Team Report& Presentation** | Report with all deliverables | #Documents | 4.00 | 7 | 28.00 | 34 | 12 |
| Final team's presentation of app's functionality | #Slides | 1.00 | 20 | 20.00 | 21 | 1 |
|  |  |  | ***Total*** |  | ***136.30*** | ***177*** | ***107*** |

\*The architecture of the application changed and the final design does not include a database but a JSON file instead. Since time was still spent on work related to setting a database these deliverables were preserved in the estimation record and marked with an asterisk.