

Project Plan

JUnit Test Generator

I.T. Carlow
Software Engineering
Bachelor Degree (With Honours)

Sergio Alcocer Vázquez
C00132732

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1. Timetable

The project is divided in several <tasks> that has to be done, and have been grouped in Iterations. This allows to test the functionality of the application little by little and helps understanding which tasks need to be done before others.
























| Iteration1 | December 14th – January 11th |
|--------------------|---|
| Description | Design Manual. Web Page Design. Basic User Interface. Class Parser. Test. |
| Activities | Design the application, class diagram, system sequence diagram and interaction diagram. Build the Web Page of the application explaining the functionality of the application, the aim, etc. Design and Code the User Interface, with basic functionality (maybe messages pop-up instead of real functionality). Design and Code the Class Parser that parses the sources of the project and gets all the information needed to create the Test Cases, etc. Test how it works and that does what it is meant to do. |
| Goals | Deliver the Design Manual and Publish the Project's Website. Have a preview of the Application to use as skeleton for the project. Build a working Class Parser. |
| Notes | As we are going to use an Agile methodology, the design, class diagram, etc., is going to be extended in almost every iteration. |

| Iteration2 | January 12 th – 29 th |
|--------------------|---|
| Description | <p>Add Object Creation.</p> <p>Test.</p> <p>Add Test Cases.</p> <p>Test.</p> <p>Prepare Project Presentation.</p> |
| Activities | <p>Design and Code a way to create objects from the information gathered from the constructors.</p> <p>Test how it works and that does what it is meant to do.</p> <p>Design and Code the interfaces and all the code needed to add Test Cases to the methods and method creation.</p> <p>Test how it works and that does what it is meant to do.</p> <p>Write bullet points, and expand them to create the Presentation of the project. Including the current partial working application, some examples and Slides.</p> |
| Goals | <p>Include the Object Creation in the application</p> <p>Include the Test Cases creation and the methods creation in the application.</p> <p>Prepare all the documents and slides for the presentation of the project.</p> |

| Iteration3 | February 19th – March 18th |
|--------------------|--|
| Description | <p>Suggestions System</p> <p>Test</p> <p>Pattern Matching Suggestions</p> <p>Test</p> |
| Activities | <p>Design and build the <system> that suggests inputs depending on the type of the input.</p> <p>Test how it works and that does what it is meant to do.</p> <p>Design and Code the <system> that suggests inputs depending on the type of the input, based on a regular expression that should be in a JavaDoc notation.</p> <p>Modify the Class parser to recognise this information too.</p> <p>Test how it works and that does what it is meant to do.</p> |
| Goals | <p>Include Suggestions in the Application to make it easier for the developer.</p> <p>Include an advanced Suggestions system in the Application.</p> |

| Iteration4 | February 25 th – April 13 st |
|--------------------|---|
| Description | <p>Storing and Reading Project Information</p> <p>Test</p> <p>Storing and Reading Test Cases Information</p> <p>Test</p> <p>Full Test and Bug Fixes</p> <p>User Manual</p> <p>Installation Disk</p> |
| Activities | <p>Design and Code the Class that stores and gets the information from a certain data warehouse.</p> <p>Test how it works and that does what it is meant to do.</p> <p>Design and code the class that stores and gets the information about the Test Cases from a certain data warehouse.</p> <p>Test how it works and that does what it is meant to do.</p> <p>Test the whole system, check if it works fine and fix any bug found.</p> <p>Write an User Manual</p> <p>Create the installation disk.</p> |
| Goals | <p>Add Save and Load functionality</p> <p>Check that the whole project works</p> <p>Create User Manual and Installation disk</p> |

2. Calendar Schedule

| ID |  | Task Name | Duration | Start | Finish | Predec |
|----|---|-------------------------------------|-------------------|---------------------|---------------------|-----------|
| 1 | | Iteration1 | 21 days? | Mon 14/12/09 | Mon 11/01/10 | |
| 2 | | Design Manual | 8 days | Mon 14/12/09 | Wed 23/12/09 | |
| 3 |  | Web Page Design | 1.5 days | Wed 23/12/09 | Thu 24/12/09 | 2SS |
| 4 |  | Basic User Interface | 4.5 days | Thu 24/12/09 | Wed 30/12/09 | 2SS |
| 5 |  | Class Parser | 5 days? | Thu 31/12/09 | Wed 06/01/10 | 2SS |
| 6 |  | Test | 3 days? | Thu 07/01/10 | Mon 11/01/10 | 5 |
| 7 |  | Documentation and Scratch Ready | 0 days? | Mon 11/01/10 | Mon 11/01/10 | 1 |
| 8 | | Iteration2 | 13.5 days? | Tue 12/01/10 | Fri 29/01/10 | 7 |
| 9 |  | Add Object Creation | 3.5 days? | Tue 12/01/10 | Fri 15/01/10 | |
| 10 | | Test | 1 day? | Fri 15/01/10 | Mon 18/01/10 | 9 |
| 11 |  | Add Test Cases | 3.5 days? | Mon 18/01/10 | Thu 21/01/10 | 9SS |
| 12 |  | Test | 1 day? | Fri 22/01/10 | Fri 22/01/10 | 11 |
| 13 |  | Prepare Project Presentation | 4.5 days? | Mon 25/01/10 | Fri 29/01/10 | |
| 14 |  | Basic Functionality | 0 days? | Fri 29/01/10 | Fri 29/01/10 | 8 |
| 15 | | Iteration3 | 19 days? | Fri 29/01/10 | Thu 25/02/10 | 14 |
| 16 |  | Suggestion System | 7 days | Fri 29/01/10 | Tue 09/02/10 | |
| 17 |  | Test | 2.5 days? | Tue 09/02/10 | Thu 11/02/10 | 16 |
| 18 |  | Pattern Matching Suggestions | 7 days? | Fri 12/02/10 | Mon 22/02/10 | 16SS |
| 19 |  | Test | 2.5 days? | Tue 23/02/10 | Thu 25/02/10 | 18 |
| 20 |  | Working Suggestions | 0 days? | Thu 25/02/10 | Thu 25/02/10 | 15 |
| 21 | | Iteration4 | 33 days? | Thu 25/02/10 | Tue 13/04/10 | 20 |
| 22 |  | Storing and Reading Project Info | 6 days | Thu 25/02/10 | Fri 05/03/10 | |
| 23 |  | Test | 1.5 days? | Fri 05/03/10 | Mon 08/03/10 | 22 |
| 24 |  | Storing and Reading Test Info | 6 days | Tue 09/03/10 | Tue 16/03/10 | 22SS |
| 25 |  | Test | 1.5 days? | Wed 17/03/10 | Thu 18/03/10 | 24 |
| 26 | | Full Test and Bug Fixes. | 16 days? | Thu 18/03/10 | Fri 09/04/10 | 25,22 |
| 27 |  | User Manual | 1 day? | Fri 09/04/10 | Mon 12/04/10 | |
| 28 |  | Installation Disk | 1 day? | Mon 12/04/10 | Tue 13/04/10 | 26 |
| 29 |  | Application and Documentation Ready | 0 days? | Tue 13/04/10 | Tue 13/04/10 | 21 |

