Deliverable D01: Report on Previous WIS Architecture Knowledge

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Group E8.02

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Github Repository: <https://github.com/JStockwell/Acme-One-E8.02>

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# Executive Summary

We are a group of 6 java developers, one of us is also the project manager of the team. We all are studying 3rd year in a software engineering degree and we have experience in projects due to other subjects like AISS, DP1, PSG1, IISSI1 and IISSI2.

Our product is a web information system which uses java technology, an IDE like Eclipse and 2 programs to interact with databases like MariaDB and DBeaver.

Our procedure is using github to establish a common cloud and a control version using branches that will commit to the main code and kanban boards to organize the work. We also use Scrum methodology to organize ourselves as a team.

# Revision Table

| Revision | Description | Date |
| --- | --- | --- |
| v1.0 | Short description | 01/03/2022 |

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# Introduction

In order to develop a project, it is very important to have an insight on how the system inner workings, so we have made some meetings to discuss and share our collective knowledge about how this project’s architecture works in order to deepen our general knowledge and put together a better document.

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The architecture model we will follow to develop this application is called MVC (Model-View-Controller). It is an architectural pattern that separates an application into three main logical components: the model, the view, and the controller. Each of these components are built to handle specific development aspects of an application. MVC is one of the most frequently used industry-standard web development frameworks to create scalable and extensible projects.

* The View component is used for all the UI logic of the application. For example, the Customer view will include all the UI components such as text boxes, dropdowns, etc. that the final user interacts with.
* The Model component corresponds to all the data-related logic that the user works with. This can represent either the data that is being transferred between the View and Controller components or any other business logic-related data. For example, a Customer object will retrieve the customer information from the database, manipulate it and update its data back to the database or use it to render data.
* Controllers act as an interface between Model and View components to process all the business logic and incoming requests, manipulate data using the Model component and interact with the Views to render the final output. For example, the Customer controller will handle all the interactions and inputs from the Customer View and update the database using the Customer Model. The same controller will be used to view the Customer data.

The flow of information works this way:

1. The user makes a petition by interacting with the view he is placed in.
2. The application sends an HTTP petition of data to the server.
3. The server processes the petition by consulting the controller component.
4. The data model returns the information demanded in JSON
5. The server sends the data and the View model displays data as programmed in the user console.

# Conclusions

In conclusion, code testing will be crucial during the whole development of our project. And we will try to maintain constant revisions and test a single piece of code.

# Bibliography

<https://www.tutorialspoint.com/mvc_framework/mvc_framework_introduction.htm#:~:text=The%20Model%2DView%2DController%20(,development%20aspects%20of%20an%20application>.

Ensuring all the functionalities of the code of a project is a fundamental process of the development of a software system. It is as important as the code itself that every single piece of code is well tested by the time of making an important delivery to the client. And it’s also important in a team work that all the members of the development team know where a mistaken code is failing, even if it’s not made by him/her.

For these reasons we have made a plan to maintain the code tested in every moment and we will detail more concretely the plan in the following point.