# Interim Progress report

# Project Title

Contractor Contactor

# Date: 14/03/21

# Recipient Organization:

National College of Ireland

Course Title: Higher Diploma in Science in Computing, Software Development

Student Name: Ronan Behan x19141815

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## Project overview

Project: Contractor Contactor

Student: Ronan Behan x19141815

This is a Web Application to connect Contractors and the public. It is a user-friendly interface that allows Contractors to put their profile up along with their portfolio and any other information they deem sufficient. The contractors can then be contacted by the public. This will be for any contractor no matter what domain. It will focus on the Irish market exclusively. A one-stop shop for all services.

The other side of the Web Application is for the public. They will be allowed to put up work on a notice board which only the contractors will have access to. Here they can message each other.

This is to be done on AWS through the languages of Ruby on Rails, HTML and CSS. It will use the Heroku Server for online availability.

## Project expected deliverables

* Project Ethics Form to be signed by the author, ensuring good practice.
* Project Brief to be signed by the author, ensuring good knowledge of the project requirements.
* Project Proposal, this describes the project, its background, the means by which it will be achieved and the end goal. This includes a Gantt chart
* Project Requirements Specification, this outlines the purpose, the scope, the objectives, the risks, the requirements, the Use Case Diagram, the Wireframes, Class Diagram, the assumptions, system evolution.
* Project Design Specification, this is an overall view of the system for the project, package diagrams (logical view), site map, hardware, security features, communications, database, API, User Interface Design and the wireframes.
* Project Interim Report, this is a report outlining the progress by March 14th including problems and projected problems.
* Project Final Report – to be submitted by April 25th at 6pm.
* Project Code – to be submitted by April 25th at 6pm. This will be the application built on AWS through Ruby on Rails, HTML and CSS.
* Declaration Cover Sheet – to be submitted by April 25th at 6pm.
* Project Presentation – to be submitted by 27th of April 2021.
* Video of the Final Project when complete to be submitted by the 30th of April.

## Project actual targets met



Fig.1 – Gantt chart of the Contractor Contactor Project timeline to completion.

This is the Gantt chart outlining the projects deliverables. By the date of submittal of the Interim Progress Report, I should have completed the Ethics Approval Form, the Project Proposal, The Project Requirements Specification and the Project Analysis and Design and this Interim Progress Report. The Project Brief should also be signed.

All of this has been done in full and to a satisfactory degree. It has also been reviewed and approved by relevant authorities.

## Deliverables yet to be achieved

All of the deliverables currently required have been delivered on time. Anything omitted has not required submission to date.

* Project Final Report – to be submitted by April 25th at 6pm.
* This has not been completed yet, as the deadline is over a month from now. As it is the final report, it requires all aspects of the project to have been completed or close to before submittal. This will be completed as the other documents have been, systematically, as the project timeline continues. It will be a full in-depth report of the project as a whole.
* Project Code – to be submitted by April 25th at 6pm.
* This will be the application built on AWS. This will begin in earnest this week and it will be finished on time. I will start with the front end then move to the Ruby on rails, then to the Database work and then to go backwards and forwards through the front, the back and the database, testing and adding to the project where necessary. By the submittal date this will be a fully-working Web Application hosted on Heroku.
* Declaration Cover Sheet – to be submitted by April 25th at 6pm.
* A declaration by the author conveying authenticity, ethics and objective. This is a short document and can be created close to the submittal date.
* Project Presentation – to be submitted by 27th of April 2021.
* This will be a video recording of me going through my entire project in detail. It will be of all the documentation and the code as well as the working application. This will be done on the due date as all the project must be completed and all of the completed work must be on hand to present.
* Video of the Final Project when complete to be submitted by the 30th of April.
* This will be done before the due date and can be done effectively as it contains all the necessities of the Project Presentation, but in more detail.

## Main problems encountered

The main difficulty was time constraints. Working full time and being in University is very demanding and requires a lot of planning and dedication. Time must be devoted after work each day, as well as at the weekend, in order to work on the project. This can be stressful and draining but for the most part it is rewarding and fascinating.

As for the documentation demanded so far, the requirements have been delivered. The modules preceding this Project have provided a solid education for the completion of these tasks. It took many hours but they are done to a high level and have been given the approval of the lecturer and the class aids.

## Expected Stumbling Blocks

As the project progresses over to code I do expect more challenges. I believe this will be with the scaffolding of the database. This is a very important feature that needs to be certain so as to avoid later errors. This will require some planning on the SQL Workbench to flesh out the overall design of the Database Architecture.

As the coding continues there will be issues with errors in the basic syntax of the code. This will be high priority to make sure that the application is coded perfectly in good working order in Ruby, HTML, and CSS. It needs not only to function well in the backend, but it needs to be aesthetically pleasing and user-friendly. This will require much attention to detail.

As we go through the project, there will be a lot of testing to make sure that it works correctly. This will take time, but it will be imperative to the success of the project.

There may be issue with the security of the project. It will be very important to make sure that all the data on the site will be private and that certain aspects of the Web Site are off limits to unauthorised individuals. As with the rest of the project, this must be completed in time to make sure everything is asynchronous and has good functionality.

## Focus on rubric

The project up to this date has been in line with a high grade on the rubric. The communication of the project is clear, concise and presented well.

The writing is clear and appealing to the reader. It is, however, formal and academic. The requirements, statements and results are very easy to understand and there is clearly a high level of enthusiasm on the part of the author.

The diagrams and the pictures included are of a very high level, painstakingly created for the benefit of the reader as well as the person creating the project.

The overarching idea of the project is commercially viable, innovative and well thought out, with significant financial end goal if it can be committed to the Web and opened for use by the public.

The technology aspect of the project is exciting, well known by the author and will be implemented thoroughly to create the Contractor Contactor Web Application.

The project management aspect of the project has been carried out in full with a clear view towards the due dates. The project has continued systematically in good order. Nothing has been missed, despite difficulties, and the work submitted was of a high satisfactory quality.

This project has been methodically driven into production, with reverent eye towards the grading rubric and this will continue as the project continues to the end date.

# Summary of project progression

The project began on the 28th of January 2021. There was a change of lecturer for our class but apart from that everything has moved smoothly.

There are meetings every Tuesday night where we go through helpful concepts and discuss the progress of the class and evaluate our submittals.

To begin with, each member of the Project Modules reviewed and signed a Project Ethics Form, and a Project Brief. This was for the class to understand what was required of them regarding rules and learning requirements for the completion of the module.

The first document for submittal was the Project Proposal. This was an in-depth analysis of what the overall idea of the project was envisioned to be. There was a description of the overview of the project. The background of the project was discussed in detail; why this idea was important and why it held merit. The Proposal went on to outline the route to completion of the project. This is most effectively rendered in the Gantt chart in that project proposal. See above in Fig.1.

The second document submitted was the Project Requirements Specification. This was a deeper investigation of the project at large. It went into the purpose of the working Web Application and the overall functionality of the Contractor Contactor Web Application.

This document contained some very essential aspects for the guidance and clarity in the project. The objective of the Web Application we dealt with in detail. Following this were the risks that the Web App may face as we progress through the project and at the end stages.

The requirements we displayed in an open, clear and thorough manner. These had been planned with great deliberation to make the Web Application effective, user-friendly and simple. The site should be easy to use and the code should be easy to read with clear functionalities for a system that is to have long-lasting use.

Other important aspects of the project completed in this Document were the diagrams such as the Use Case Diagram, the wireframes and the Class Diagram.

This document ends with a resolution for the assumptions and the system evolution.

The third document to be submitted was the Project Design Specification. This too was an integral step towards the creation of a clear and effective Web Application. This document gives the reader a blueprint for the system. The features are discussed specifically and at length. It contains many diagrams to help construct a mental image of the system in question. These diagrams include the Package Diagram, the Site Map and the Wireframes.

Further details are expanded upon in this document, notably about the hardware involved, which will be mainly Heroku. It also details the security features, such as who has access to the Web Application and to what aspects of this service.

Finally it discusses the communications, database structure and the API status.

That brings us to this document, the Project Interim Report. This has outlined the progress thus far and to what degree it has been completed. Everything set out in the project deliverables has been punctually delivered to date, to a high standard, and reviewed by the Project authorities. The project will be continued in this timely and conscientious manner up until the final submittal and presentations.

Signature of author: Ronan Behan 19141815x