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**IS480 Project Proposal**

**Dynamic Web Application**

**To Provide Project Management Insights**

**INSIGHTIERS**

**Version 1.0**

**08 September 2014**

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**Team Members:**

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**Sponsor and/or Clients (if any):**

* Edmund Gair – Co-founder of Viatick
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* Website: <http://viatick.com/>

**Project Overview**

**1.1 Project Description:**

The aim of this project is to develop a web application that will provide business insights for Viatick’s project managers. This application will give the project managers a bird’s eye view of all the ongoing projects and allow them to track the progresses of the projects. Management-oriented, this application will provide insights for the project managers to understand the workload the company has on hand and determine if they have sufficient resources to take on a new project. There will also be a simulation feature where project managers can create a pseudo project to understand how adding one more project can impact the company’s workload. On top of that, we will integrate a third party web-based project management application, Trello, with our application, which will allow project managers to manage their projects. We will also incorporate various modules, such as quotations and change request forms, to further aid Viatick in managing their projects and documents.

**1.2 Motivation:**

Currently, Viatick is using Trello to record all projects. However, the overall project timeline and breakdown of the project tasks are not included in Trello and project managers have to keep track of project timeline by manually creating it in an excel spreadsheet. More often than not, PMs are not able to tell if they have enough resources and time to take on a new client project. They would have to spend a large amount of time going through each ongoing project to determine if they have the capability and resources to take on a new project. Since Trello does not provide the necessary business intelligence to help project managers make informed decisions, managing projects becomes extremely labor-intensive and time consuming. It is also difficult for PMs to track the ongoing projects without a bird’s eye view of all projects. Although there are many other project management tools that Viatick can easily grab off the shelves, those tools simply allow project managers to CRUD[[1]](#footnote-1) projects. There is a lack of proper visualization tools which can provide business intelligence for project managers to get an overall idea of the workload that a company is handling. This is where our team wishes to step in and address the frustrations project managers face in monitoring all ongoing projects and managing the company’s resources well. Furthermore, the incorporation of a third party web application into our application is especially intriguing, as we have yet to be given the opportunity to work with a third party application.

**1.3 Stakeholders:**

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| Sponsor | Mr. Edmund Gair, co-founder of Viatick.  Edmund is a SMU alumnus and currently a co-founder of Viatick, a solutions powerhouse that helps businesses optimize their scarce resources, while maximizing their output capability by providing them with an integrated suite of solutions that is highly suited to them, in a cost effective manner. |
| Client | The web application will be used by Viatick’s staffs, as well as their business clients who will have access to certain modules for viewing purposes. |

**1.4 Deliverables:**

A web application will be deployed. Project managers will be able to create projects and sub-projects in both Trello and our application and monitor the progresses of the projects. They can also create pseudo project for simulation purposes. Clients will be able to view certain modules, such as the quotation and contract modules and download them for documentation purposes.

**1.5 Scope:**

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| **Module** | **Module description** |
| User Account Module | This module manages users’ personal accounts (Founders, CIO, project managers (PM), clients, etc). |
| Project Module | A dashboard will be implemented for PMs to have a bird’s eye view of all the ongoing projects and the metric score of each task in a project (whether it’s early, on time or late). |
| In this module, apart from the dashboard, there will be an overall project timeline feature for PM to view a particular project timeline in greater details, with the inclusion of all the tasks created for that project. There will also be a tracker to inform PMs on the duration the project is ahead of/behind schedule and the percentage of project completion. |
| It allows permitted users (e.g. founders and PMs) to see the percentage of payment that have already been collected from client in order for them to keep track of the balance amount they need to collect from client before closing the project. |
| PMs will be able to create a new project which will include vital information, such as the name of client, project description, developers involved and PM-in-charge, etc. Existing projects can be retrieved by their unique project codes. This module will collaborate with Trello to perform CRUD functions, such that any modification done to a project from either application will be reflected in the other application. |
| Quotation Module | This module will implement a drag-and-drop function for PMs to drag the product modules and drop them on a fresh quotation sheet. This would reduce the need for PMs to manually type in all the modules which are commonly used across all quotations of their products. |
| Invoice Module | As the web application will be responsive with mobile devices such as iPads, PMs will be able to generate invoices onsite when meeting clients and eliminate the need to generate invoice prior to meeting clients, which often is subjected to changes. |
| Contract Module | Both of these modules behave in a similar manner where PMs are able to create the required forms, and export them to pdf format which they can then send to client via our emailing function. A history of the documents will be kept and can be retrieved upon request. Each document will be tagged with unique code. |
| Sign-off Module |
| Product Module | This module manages Viatick’s current products and cloud computing accounts, such as IP address/username and password used by a particular client. |

**Project Plan**

**2.1 Risks:**

Exploring a third party web application may be more challenging than expected. Misinterpretation of project requirements is also a potential risk, since there are many requirements that we need to take into consideration.

**2.2 Resource and Reference:**

A staging server will be provided by the client. Technologies to be used include HTML 5.0, Eclipse, Java, Javascript, CSS 3.0, MySQL, JQuery, Cross-filter, Tortoise SVN and Trello APIs.

1. CRUD refers to create, read, update and delete. [↑](#footnote-ref-1)