**`Rural Cultivation and Atmospheric Emulation Application (RCAEA)**

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Contents

[Executive summary 3](#_Toc471452965)

[Introduction 4](#_Toc471452966)

[Understanding with client’s representative 4](#_Toc471452967)

[Team work 5](#_Toc471452968)

[Division of labor 5](#_Toc471452969)

[Important decisions 6](#_Toc471452970)

[Implementation process: 6](#_Toc471452971)

[Problems, we faced 6](#_Toc471452972)

[Personal views 6](#_Toc471452973)

[Conclusion 7](#_Toc471452974)

# Executive summary

We are writing this report to summarize our progress in “RCAEA” project.A representative from SIM Software’s board of management, Mr. Johnson had decided to meet with Tanks & Co™ to consider their RCAEA project submission.

We tried our best in fulfilling all the requirements .We have successfully created an application that will help users to determine when, where and what crops to place on a specified piece of land.

Furthermore, we will describe short introduction of the project. We will discuss our understanding with representative from SIM Software’s board of management. We will narrate at which certain moment we faced difficulty. We will talk about individual effort by each group member.

Finally, in this report, you can find every group member’s personal point of view for project.

# Introduction

The application allows the user to simulate cultivating specific crop(s) in an area of land during a certain length of time. By using this application they can determine when, where, and what crops to place on a specified piece of land. It will help the user make a cultivation plan for a certain area of land based on real land data. It considers regions factors such as weather whereby the user can select which outdoor agricultural crops to place in an area. The simulation will use real data on the crop and stimulate its growth based on external and internal determinate factors. RCAEA will take all these factors into account and determine an estimated cost and production outcome. Data will be saved in a file which the user can load or keep for their own records.

# Understanding with client’s representative

During all meetings, a representative from SIM Software’s board of management helped us a lot in making our solution the best .He always tried to enhance our confidence. His relentless motivation and guidance has molded us to finish this project effectively. His suggestions always take into consideration.

# Team work

We've all been a part of *this* group project. For good progress of project good teamwork matters a lot .Our group members contributed hard for successful completion of the project. Everyone cooperated with each other. Things change when everyone on the team is equally invested in the overall purpose and goal. We found ourselves working faster, finding mistakes more easily, and innovating better.

# Division of labor

This project was divided into sub parts. We divided the whole work within group members.

Here below you can see major activities of our project performed by each group member.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Major Tasks** | **Zisis** | **Richard** | **Raima** | **Tsanko** | **Khan** | **Mihail** |
| **Project proposal** |  |  |  |  |  |  |
| **Project plan** |  |  |  |  |  |  |
| **User requirements specification** |  |  |  |  |  |  |
| **Test plan + test cases** |  |  |  |  |  |  |
| **Design document** |  |  |  |  |  |  |
| **Database** |  |  |  |  |  |  |
| **Sprint 1** |  |  |  |  |  |  |
| **Sprint 2** |  |  |  |  |  |  |
| **Sprint 3** |  |  |  |  |  |  |
| **Sprint 4** |  |  |  |  |  |  |
| **Process report** |  |  |  |  |  |  |
| **Presentaion** |  |  |  |  |  |  |
| **Agenda** |  |  |  |  |  |  |
| **Minutes** |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

# Important decisions

During the design stage for USR and design documents, we did make some following considerations and coming up with final decision:

List of decisions

# Implementation process:

GitHub is used to share source code and for collaborative working purpose:

https://github.com/RichnNL/ProCp

# Problems, we faced

The only major problem that we faced in the whole process was I dono

Otherwise almost everything went surprisingly perfect.

# Personal views

**Zisis:**

**Richard:**

**Khan:**

**Raima:**

During the course of this project we came across many challenges. However, I feel that we were able to cope with all the challenges by discussing with each other all the different solutions and coming up with the best possible solution.

I believe the planning process, especially composing the class diagrams helped us a lot about how the project would be implemented later on. The time spent on planning and documentation, I think saved our much time in the implementation stage. This project has been an immense learning experience and more than the technical knowledge I believe I have gained a better understanding of how to solve problems in synchronization with and input from my group members. Many ideas put together produce a better solution than individual ones.

**Tsanko:**

**Mihail:**

# Conclusion

Overall, the team feels the project has been a success. A great deal of knowledge has been gained through the trails of this project, these lessons will be invaluable in future endeavors.