3/21/2017

PROJECT PLAN VERSION2

Inholland University of Applied Science: Project Web Science

Project By:

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# Introduction

Mathematical engineering is based on developing a model for a program to find a desirable solution to real-life problematic situations. While working towards the development of a program, one comes across several challenges which change the approach of the development. Challenges can be encountered when determining the implementation model of the program. Parameters of the model are to be divided into categories. Therefore, due to the level of complexity, that the model may hold, it is mandatory to not only implement an program which gives output as statistical numbers but as graphs.

## 1.1. Context

Migration has become a hotly-discussed topic in recent times. Aspects such as economics and politics influence the rapidly increasing global migration. It is sometimes said that such an influx will destroy culture when the migrants and refugees do not integrate, and that integration is something they do not have much incentive to do in large numbers. It is important to understand the scope of this phenomenon so the exact extent of the problem can be assessed. This project aims to do a part of that.

## 1.2. Purpose

The intention of this paper is to work towards a possible solution of a problem, which has been taken from the emigration and immigration status of the citizens who have an American nationality and the citizens whose nationality underlies as one of the middle-eastern countries. The solution will be implemented based on a mathematical model, graphed over time.

# 2. Central research question and sub-questions

## 2.1. Research Question

The Main Research Question for this research paper is based on the immigration and emigration between countries:

How will the migration ratios between countries affect citizen national demographics?

## 2.2. Research Sub-questions

The research sub-questions are questions which derive from the main research question and provide the path to the answer of the research paper.

Sub-Research Questions for this research paper:

1. What are the current national demographics and migration rates in countries?
2. How to model the data in order to draw conclusions in regards to migration rates?
3. What concepts can be used to analyse migrations between countries?
4. How can the calculations be automated?

# 3. Methodology

In order to answer the main research question of this project, the research paper will start by focusing on answering the research sub-questions, which subsequently will lead to an answer to the main research question. The methodology explored in this project reflects the immigration and emigration demographics between the United States of America and middle-eastern countries. By means of collecting data and modelling theoretical graphs based on the data, the research will then attempt to provide a programme which has as an input of countries and their numbers of migration and an outcome of graph based on that fluctuating data. From the graph information will show a relational relationship between the countries migration.

1. What are the current national demographics and migration rates in countries?
2. How to model the data in order to draw conclusions in regards to migration rates?
3. What concepts can be used to analyse migrations between countries?
4. How can the calculations be automated?

# 4. Outline Project

## 4.1. Schedule

|  |  |  |
| --- | --- | --- |
| Week | Activity | Milestone |
| 1 | * Kick-off of the project * Create Final Project Plan * Setup GIT repository * Roles defined * Meeting minutes |  |
| 2 | * Writing Agenda plan * Meeting Minutes |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |
| 10 |  |  |

## 4.2. Work Division

|  |  |
| --- | --- |
| Name | Position |
| Adu, Stephen |  |
| Andreicha, Semida |  |
| Buaron, Tal |  |
| Boswijk, Marik |  |

## 4.3. Contact Information

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| --- | --- |
| Name: | Vera Hollink |
| E-mail: | [vera.hollink@inholland.nl](mailto:vera.hollink@inholland.nl) |
| Meeting Schedule: | Every Friday face to face. |
|  |  |
| Name: | Koos van Tubergen |
| E-mail: | [koos.vantubergen@inholland.nl](mailto:koos.vantubergen@inholland.nl) |
| Meeting Schedule: | Every Friday face to face. |
| Name: | Adu, Stephen |
| E-mail: | E-mail: [572481@student.inholland.nl](mailto:572481@student.inholland.nl)  Skype: reall.blue |
| Meeting Schedule: | On social media any time. |
|  |  |
| Name: | Andreicha, Semida |
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|  |  |
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|  |  |
| Name: | Boswijk, Marik |
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|  |  |

# 5. Bibliography