MET cS665 Summer 2 2018

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# Introduction

With more and more pets being abandoned or removed from an abusive household, leading to more homeless animals, there is a higher need find adoptive parents for these pets. AMGPetAgency thus so happens to be one of these organizations that strives to place animals with the most appropriate adoptive parents based on personality traits, work schedule, family size, and overall lifestyle. However, because of the recent increase in demand, AMGPetAgency’s paper-copy approach isn’t working too well, leading to data loss, ranging from the very minor details to losing documentation. In all honesty, this issue only started recently and the president is looking for an immediate solution.

The president met up with a software developer friend and they came up with a suggestion to build a record management system in order to know which animal is placed in which home as well as which animals are still available for adoption. The end result would be a custom application that can be accessed only on the internal network from any machine and would be scalable to handle the large number of animals needed to be adopted. In order to get a better understanding of the system details, the president requested the development team to build a prototype that demonstrates the overall features that will be available in the initial release.

# 1 Application Description

## 1.1 Implementation Details

*The following details are also available in the README.md file*

## 1.2 Assumptions

* The animal breeds have already been breaded and are available for appropriate animals.
* Animal types are predefined and no new animal can bee created via combinations.
* A person can only be either a male, female, or not specified.
* The measurement used for height is in inches.
* The measurement used for weight is pounds.
* Additional nationalities will be added in the future.
* Additional races will be added in the future.
* Additional animal breeds will be added in the future.
* Additional animal types will be added in the future.
* Additional properties will be added and be configurable to people in the future.
* Additional properties will be added and be configurable to animals in the future.

## 1.3 Prerequisites

* C++ compiler with C++11 capability
* CMake version 3.11 or higher
* XCode command-line tools (MacOS only)
* Visual Stuido 2017 or higher (Windows only)

# 2 Assignment Tasks

## 2.1 Implementation Description

*The following details are also available in the README.md file*

What are the design goals in your project?

• How is the flexibility, of your implementation, e.g., how you add or remove in future new

types?

• How is the simplicity and understandability of your implementation?

• How you avoided duplicated code?

## 2.2 UML Class Diagram

## 2.3 UML Sequence Diagram

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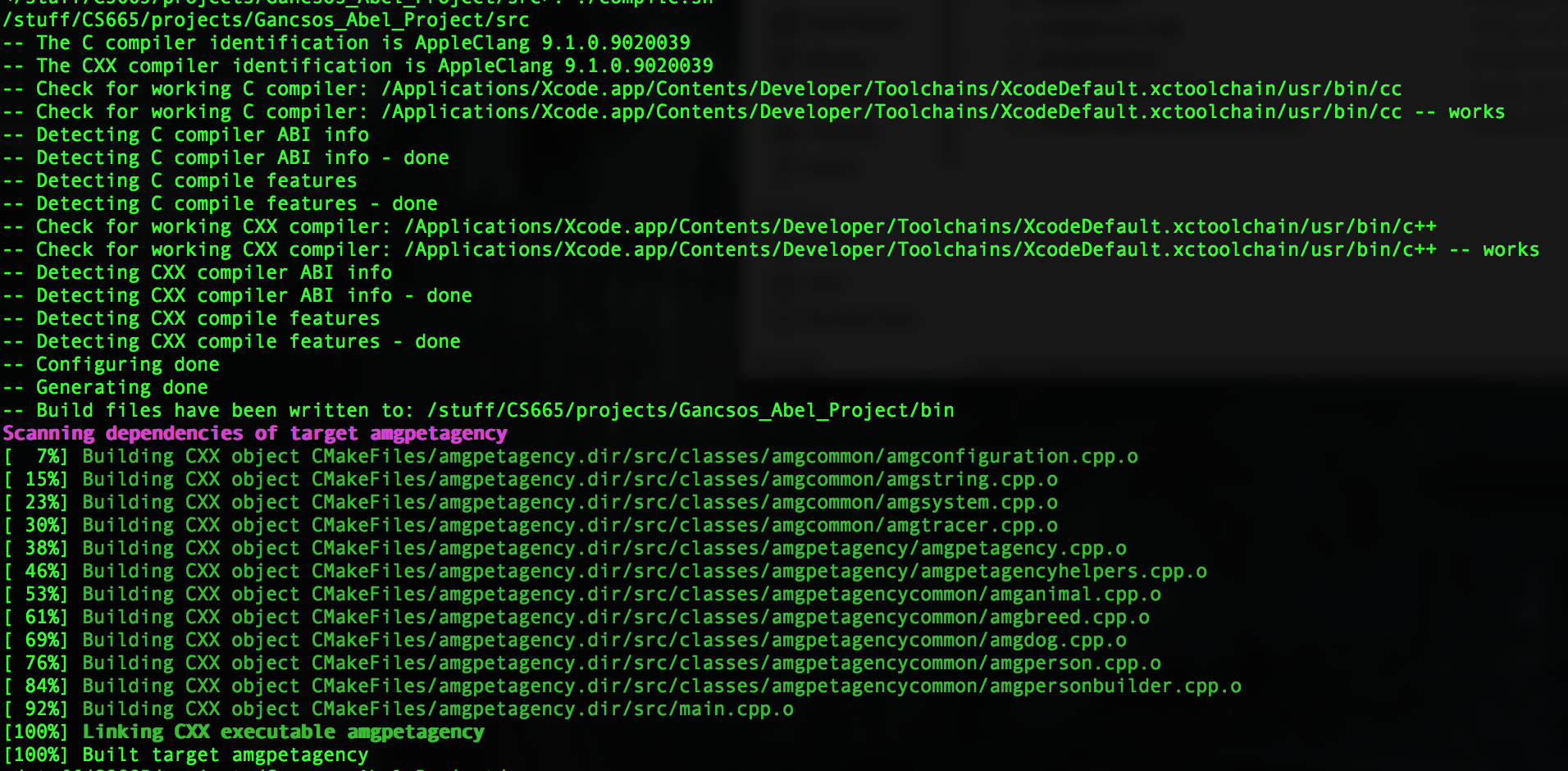
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# Appendices

## Appendix A – Setup

The project can be build using the make.sh or make.bat scripts, depending on the platform. Both of these scripts will run cmake to generate the CMakeFiles and then run the make command in the bin directory. Alternatively, the project can be built manually using the CMakeLists.txt file that comes with the package.

## Appendix A – Building project



## Appendix B – Running executable

