**GradRooAte System Guide**

**Version 0.0.1**

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# Revision History

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| --- | --- | --- | --- |
| **Version** | **Date** | **Name** | **Description** |
| 1 | 26 April 2020 | Alec Sears, | Initial Document |
|  |  |  |  |

# Introduction

GradRooAte is a faculty scheduling application for UMKC. It can be used to define instructors, courses, and class rooms; build a class schedule using that data; and then determine conflicts in the class schedule. This document provides instructions for setting up and maintaining the software.

# Installing the Software

## Prerequisites

**This application requires the .NET Core runtime for desktop apps to be installed:**<https://dotnet.microsoft.com/download/dotnet-core/current/runtime>

## Download GradRooAte

The current releases of the software can be found on the GradRooAte project page on GitHub:  
<https://github.com/umkc-cs-451-2020-spring/semester-project-group-10/releases/>

Download the latest executable to a folder on the local disk. It is now ready to run.

# Maintaining the System

## General System Maintenance

The GradRooAte system presently takes the form of a single executable that runs on a local computer. It is designed internally in a 3-Tier architecture, meaning the user interface, business logic, and data store can be separated in the future. However, until that development occurs, it is contained within a single program and there is no larger system to operate.

The GradRooAte application saves data in a project file with the extension .grdb. This project file is a SQLite database with a schema managed by the application. The contents of this database file can be viewed and modified with an SQLite browser or editor, but changes to the structure or schema of this database file are not recommended because then the application may be unable to open it or upgrade it in the future.

## Modifying the Source Code

GradRooAte is an open source application, and the source code is publicly available on GitHub: [https://github.com/umkc-cs-451-2020-spring/semester-project-group-10](https://github.com/umkc-cs-451-2020-spring/semester-project-group-10/releases/)

The project is written in C# on the .NET Core platform. The .NET Core 3.1 SDK and a supporting code editor is required to build from source. Visual Studio 2019 or Visual Studio Code are recommended.

<https://dotnet.microsoft.com/download/dotnet-core/3.1>

<https://code.visualstudio.com/>

Furthermore, the GUI component of the project “AppWindows” uses WPF which is only supported on Windows platforms. The library “SchedulingLib” containing the business logic and database access can be modified and built on any platform that .NET Core supports, but the GUI application can only compile and run on Windows.

# Troubleshooting

## Can’t open project file

If an error message appears stating that it can’t open the project file, ensure that the file is a \*.grdb file. If it is a GradRooAte project file, either the file may be corrupted or an application update did not correctly update the project database. The data may be salvageable by advanced users or a GradRooAte developer. The project file is based on a SQLite database, which can be edited or inspected using publicly available SQLite browser software.

## Other

If you experience an error or exception in the application that isn’t covered by this guide or resolved through troubleshooting steps, please create an issue on our project page: <https://github.com/umkc-cs-451-2020-spring/semester-project-group-10/issues>

We accept submissions for changes to the source on our project page (see [section 3.2](#_heading=h.x2vrw79izelp))