Rainbow Boys Progress Tracker

User Manual

Introduction

Rainbow Boys Progress Tracker is a software used to track progress for gymnasts at Gymnastics World, a gymnastics training center in Brecksville, Ohio. The way the Rainbow Program works at Gymnastics World is that gymnasts learn skills in order from a list, and every three skills they learn, they earn a ribbon. These ribbons are colored in the order of the rainbow, then after the rainbow is finished, they earn a bronze, silver, and gold medal, hence the Rainbow Program. For each gymnast there are six events where ribbons can be earned, which means there are 9 different ribbons, so 27 skills per event. That is 162 skills per gymnast that need to be tracked. Combine this with hundreds of gymnasts each year and the need for tracking software becomes clear. That is the purpose of Rainbow Boys Progress Tracker.

The primary features of this software are to sort gymnasts into classes, be able to effectively search for a gymnast, and track their progress on each event. Also, new gymnasts and classes can be easily added to the system. The software also supports adding coaches to the system and associating them with any number of classes. This manual should help coaches with admin duties use this software to best utilize its capabilities and effectively track gymnast progress.

Getting Started

As it stands right now, a couple dependencies are needed for this software. This is a Java application, so a Java Runtime Engine is needed to execute the code. Along with that, Maven is used as a build tool to put the application together. In the future, only a Java Runtime Engine will be required, but in its early stages of development, Maven is how the software runs.

After you install Maven, a JRE, and the files for this project on GitHub, you begin by changing to the directory inside the project directory called javafx-app that has the pom.xml file. After this, just execute the command `mvn clean javafx:run` and the software should start running.

Using the Software

After running the software, you will land on a screen that looks like this:
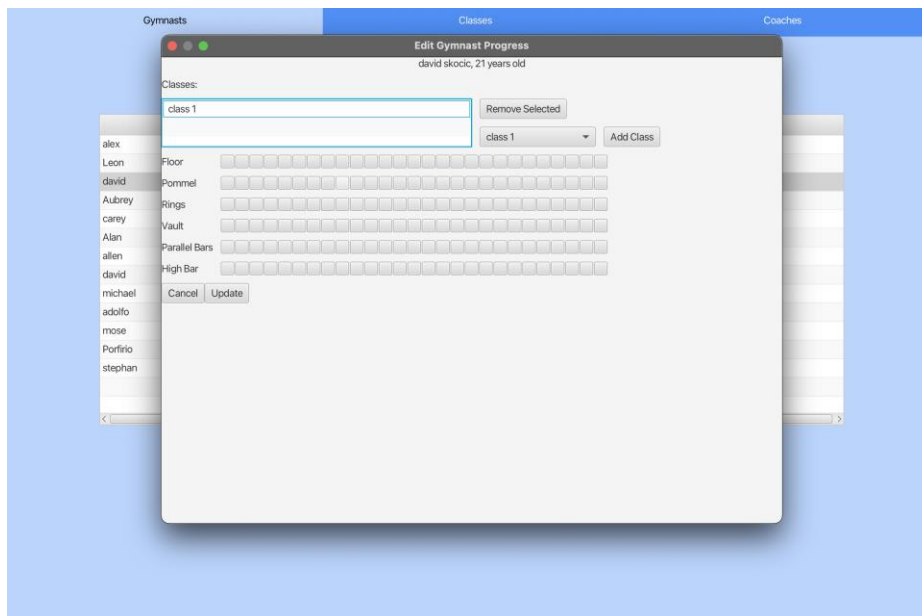

Gymnasts	Classes	Coaches

First Name	Last Name	Brithdate	Age
alex	skocic	2001-11-15	23
Leon	Patel	2003-11-18	21
david	skocic	2003-11-18	21
Aubrey	holden	2003-11-18	21
carey	turner	2003-11-18	21
Alan	Nunez	2003-11-18	21
allen	bradford	2015-11-18	9
david	skocic	2003-11-18	21
michael	smith	2010-01-01	14
adolfo	barber	2003-11-18	21
mose	durham	1999-07-22	25
Porfirio	carter	2003-11-18	21
stephan	Farrell	2003-11-18	21

This is likely the screen where you will spend the most time. It is here that you search for gymnasts, and where you begin to update their progress, print progress reports, and add new gymnasts. To search for gymnasts, there are three fields toward the top of the screen. They have prompt text suggesting what they are used for.
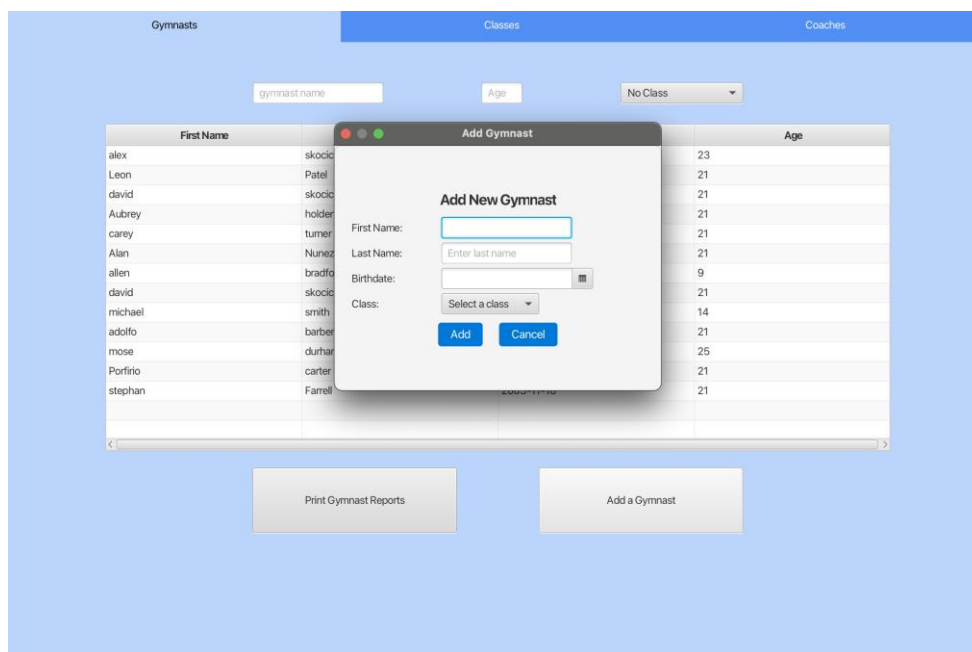
The first is for the gymnast's name, which supports a very convenient search feature where you can search for a gymnast first or last name, or their first and last name, making it simple to find any gymnast with the least number of keys typed. Next is the age field which just filters by age, so only gymnasts with the specified age appear in the table. The third is the gymnast's class. Selecting a class will only show gymnasts that belong to a certain class. Any combination of these filters may be applied to search for gymnasts in many ways.

After searching for a gymnast, you must be able to edit their progress. This is done with a simple double click on the gymnast's row in the table. Doing this pulls up this screen:

It is here that you may check of any of the 27 skills for a gymnast on any given event. You may also assign the gymnast to another class. They may be a part of multiple different classes which can be added in this way. Once you click "update" this data will be saved, otherwise it will be cancelled.

Next is the add gymnast functionality. This is done by simply clicking "Add a Gymnast" on the Gymnasts page to pull up the following screen:

Just enter the gymnast's information to each of the fields and they will be added to the system. Errors will occur if you do not enter any of the required information, so ensure that you have all the required information before trying to add a gymnast to the system.

The final feature on the gymnast's page is printing progress reports. For now, this button prints the progress for each gymnast that is on the screen from the search to a pdf for each event. So, for example, if no name is added, the age 9 is chosen, and the class "class 1" is selected, each gymnast from class 1 that is 9 years old will have their progress printed. The pdfs currently go to a folder on the user's desktop.

The other two pages are for classes and coaches. They follow a very similar format to this one, you can search and add them in the exact same way. On the Coaches page, you can double click on a coach in the table and associate a class with them in the same way you do with a gymnast.