

# **Spirit Quest Administrator Documentation**

**For the 2023 FBLA Coding and Programming Competition**

**Updated June 2023**

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## Abstract

At Hillcrest High, the lack of school spirit and community among students has been a persistent issue. Many students neglect the school community by not attending events, thereby diminishing the overall academic enrichment. To address this problem, our proposed app, Spirit Quest, aims to incentivize student engagement in school events and foster a stronger sense of belonging and school spirit. By providing a platform for students to discover, sign up for, and attend events while rewarding their participation, Spirit Quest seeks to revitalize the student community at Hillcrest High.

This document serves as the user documentation for the administrator side of our comprehensive program, Spirit Quest. It provides administrators with all the necessary information to proficiently utilize the platform. While the program itself is complex, we have simplified the user interface to ensure a seamless experience for both students and administrators. In case administrators have any questions, they can refer to the "contact us" section of this documentation to get in touch with a representative.

We hope this document provides you with a smooth and enjoyable experience as you explore Spirit Quest!

# 1 - Administrator Login System

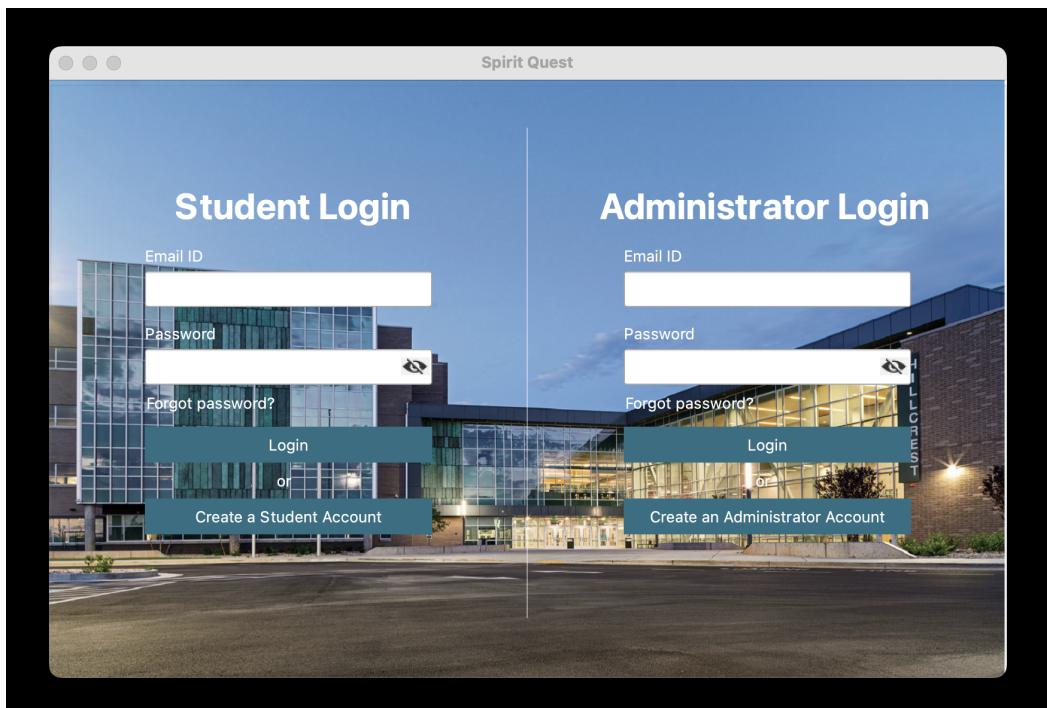
## 1.1 Admin Login Screen Dashboard

The application utilizes a secure login system to ensure access control and verify the validity of users, distinguishing between students and administrators. To access the application, users are required to provide their registered Email ID and associated Password, which were set during the account creation process.

In the event that a user forgets their login credentials, there is an option available to reset the password. To initiate the password reset process, users need to provide their known Email ID associated with their account. It is important to note that knowledge of the registered Email ID is necessary to proceed with password resetting. Additionally, the application provides an option to create new student or administrator accounts, allowing new users to join the system.

To streamline the login process, students are directed to log in on the left side of the page, while administrators are instructed to log in on the right side of the page. This clear distinction ensures that each user type is directed to the appropriate login interface, enhancing user experience and facilitating efficient access to the application's functionalities.

Snapshot of Admin Dashboard Page

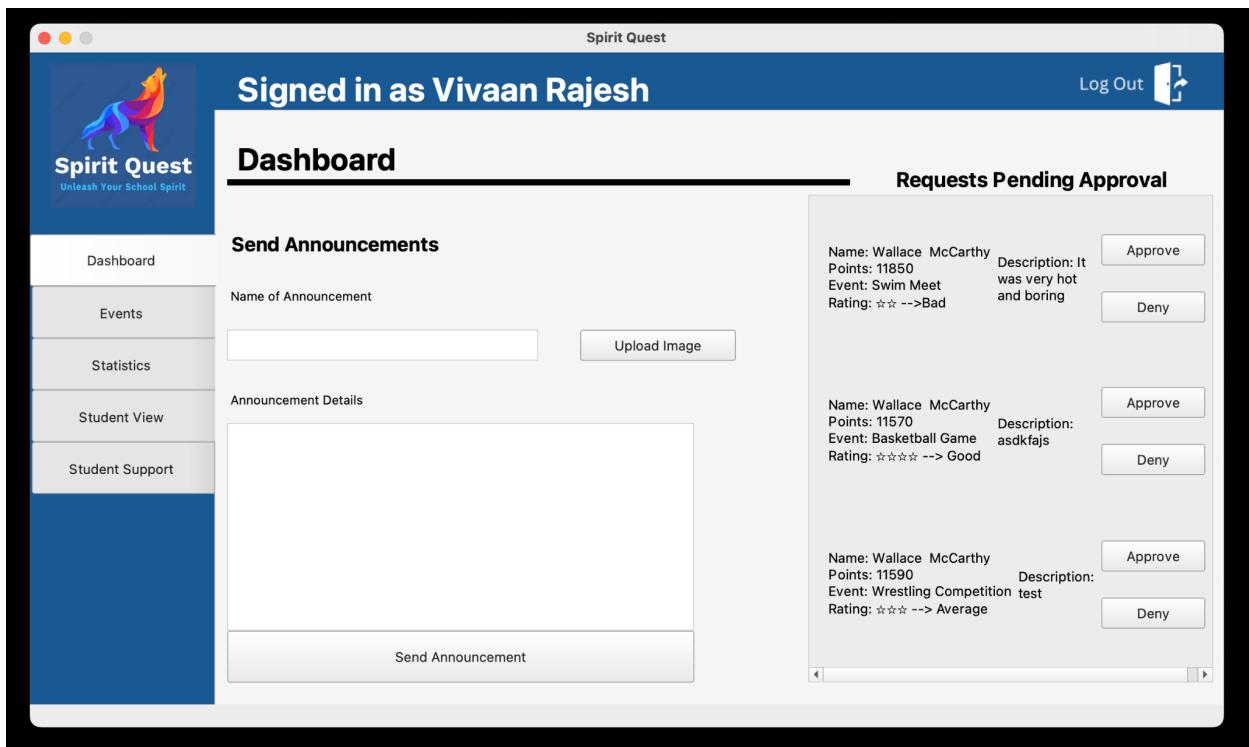


## 1.2 Admin Login Screen Dashboard

The Administrator login dashboard is a centralized platform that allows administrators to manage and monitor the activities of students who have an account in the system. It offers a range of tools and options that enable administrators to send announcements, review student requests, and approve hours. One of the key features of the Administrator login dashboard is the ability to send announcements. Through this tab, administrators can easily create and distribute announcements to all students in the system. This feature ensures that important information is communicated effectively and efficiently to all users.

In addition, the dashboard allows administrators to view student requests for approval when they complete an activity. Administrators can access and review the details of each request, including the student's rating, the event they attended, and their description of the activity. Based on this information, administrators can approve the student's hours or leave the request pending. Once approved, the student's hours will be automatically added to their account, and the request will disappear from the dashboard.

Snapshot of Admin Dashboard Page



### 1.3 - Administrator Events Page

The Administrator Events Page within the Spirit Quest application offers administrators a user-friendly interface to seamlessly add events to the platform. With authorized access, administrators can effortlessly input event details, which are then promptly stored in the database and made available on the student portal. This intuitive feature aims to empower administrators in promoting and managing student participation in both academic and extracurricular activities.

By utilizing this page, administrators can effectively highlight upcoming events, enabling students to stay informed and actively engage in various activities. The capability to add events not only enriches students' schedules but also fosters a sense of community and involvement within the school.

In addition to event management, the Administrator Events Page includes a feature that allows administrators to add custom rewards for users. By clicking the "Add Rewards" button and providing relevant information, administrators can effortlessly upload rewards onto the student rewards page. This functionality enhances the incentive system within the application, offering students additional motivation to actively participate in school events.

A Snapshot of the Events Page

The screenshot shows the Spirit Quest administrator interface. At the top, a blue header bar displays the logo 'Spirit Quest' with the tagline 'Unleash Your School Spirit', the message 'Signed in as Vivaan Rajesh', and a 'Log Out' button. Below the header is a sidebar with navigation links: 'Dashboard', 'Events' (which is currently selected), 'Statistics', 'Student View', and 'Student Support'. The main content area features a calendar for June 2023. The days of the week are labeled from Sunday to Saturday. The dates are color-coded: grey for the 22nd, 23rd, 24th, 25th, and 26th; red for the 28th, 29th, 30th, 31st, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, and 28th; and blue for the 9th and 10th. To the right of the calendar, a box titled 'Current Events' contains the text 'Events on Jun 9 2023: Come learn python with the school!'. At the bottom right, there are two buttons: 'Add Event' and 'Add Rewards'.

## 1.4 - Administrator Statistics Page

The Administrator Statistics page provides administrators with an overview of the current student leaderboard. It displays important personal information about each student, including their name, birthday, school, and grade. This information enables administrators to gain insights into the top-performing students and their points for the quarter. By having access to this data, administrators can recognize and reward students who excel.

Additionally, the page offers an exciting feature on the right half of the interface. Administrators have the ability to generate a random winner every quarter and select the student with the highest points as the recipient of a special reward. This feature adds an element of surprise and motivation to the reward system, encouraging students to actively participate and strive for academic and extracurricular success.

A Snapshot of the Statistics Page

The screenshot shows the 'Spirit Quest' administrator statistics interface. At the top, it displays 'Signed in as Vivaan Rajesh'. On the left, a sidebar menu includes 'Dashboard', 'Events', 'Statistics' (which is selected), 'Student View', and 'Student Support'. The main content area is titled 'Statistics' and features a 'Student Leaderboard' table and two selection boxes.

**Student Leaderboard:**

Name	Rank	Points
Wallace McCarthy	1	10820
Vivaan Rajesh	2	8000
Adharsh Ramakrishnan	3	6700
Tadd Snowder	4	6250

**Select a Random Winner:**

Name: Vivaan Rajesh	Points: 8000
---------------------	--------------

**Select Winner with Most Points:**

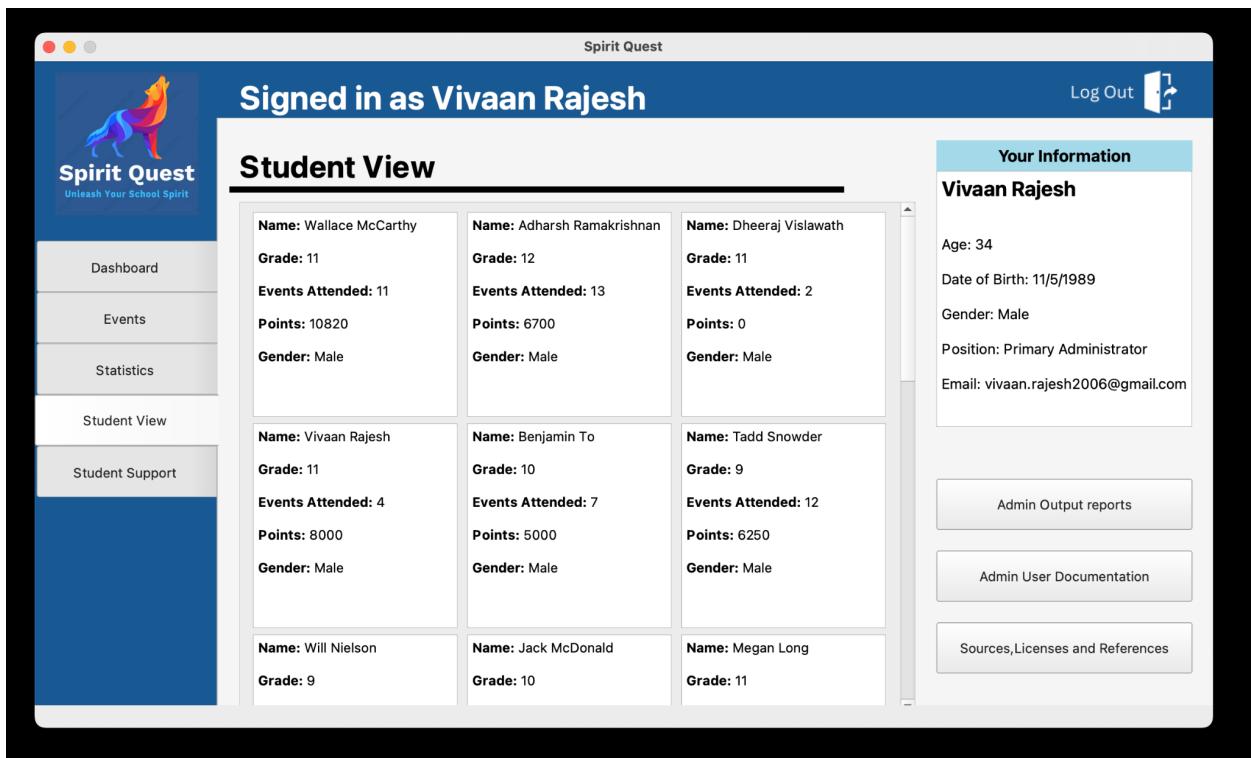
Name: Wallace McCarthy	Points: 10820
------------------------	---------------

## 1.5 Admin Student View

The graphical interface depicted here comprehensively displays the entire repertoire of users encoded within our proprietary database. For each individual registered in our system, a new QTextEdit widget is instantiated to present the user's pertinent demographic information, including their full name, age, gender, date of birth, count of events attended, and point accumulation. Additionally, an administrative feature is strategically situated in the upper right corner of the program, enabling authorized personnel to seamlessly include new students in the database.

If the administrator would like to generate an output report, they can click the Admin Output Report button and it will take them to a frame that shows the student demographic, which can be analyzed in graphs and filtered to different settings. Admins can also view the documentation, just in case they have some difficulty navigating through the program. Finally, in order to stay consistent with the student side, and maintain legal rights to the program, we have included a sources section to allow the admins to see all the sources we used in order to make the program.

A Snapshot of the Student View Page



## 1.6 Admin Student Support

The graphical interface presented here showcases the student group chat feature, allowing administrators to provide live responses to student inquiries. In the event that students submit help reports through the FAQ tab on the student side, their questions will appear within the scroll area located on the right side of the interface.

To ensure efficient issue resolution, administrators can address each student's concern directly within the chat interface. Once an issue has been successfully resolved, administrators can click the "Resolved" button, causing the specific issue to disappear from the interface. Subsequently, the next unresolved issue in the queue will automatically appear, allowing administrators to provide prompt assistance to the next student in need.

This functionality fosters effective communication and support between administrators and students, ensuring that student queries are addressed promptly and systematically. By utilizing the graphical interface of the student group chat, administrators can provide real-time assistance, enhancing the overall user experience and promoting a sense of responsiveness within the Spirit Quest application.

A Snapshot of the Student View Page

The screenshot shows the Spirit Quest Student Support interface. At the top, it displays "Signed in as Vivaan Rajesh". The main area is titled "Student Support" and contains a scrollable list of messages from students like Wallace, Sang Hyun, Adharsh, and Admin. On the right, there is a sidebar titled "Student's Questions" showing two entries. Each entry includes fields for Name, Grade, Email, Title, and Message, followed by a "Resolved" button. The first entry is for a student named "test" and the second is for "Adharsh".

Name	Grade	Email	Title	Message	Status
test	10	test@gmail.com	testing	tester	Resolved
Adharsh	12	10@gmail.com	hey	heyy	Resolved

## 2 - Source Documentation

### 2.1 - Code Documentation and Commentary

In our application, we have commented and documented every variable, class, function, and object. Here is a snippet of the commented code.

```
"""
Class that sets up the main window for the entire application.
The entire frame with all it's elements are implemented in this class."""
# Vivaan +2 *
class Main(object):
    """
    Main Method that sets up the main window for the entire application, and takes
    the user to the actual program.
    """
# Vivaan +1
def setup_window(self, main_window):
    main_window.setWindowTitle("Spirit Quest")
    main_window.setObjectName("main_window")
    main_window.setFixedSize(800, 500)
    self.setup_login_screen(main_window)

    # Sets up the initial login screen
"""
This method sets up the login screen of the program, and all physical
characteristics of the frame are made here.
"""
# Vivaan +2
def setup_login_screen(self, main_window):
    self.login_central_widget = QtWidgets.QWidget(main_window)
    self.login_central_widget.resize(800, 500)
    self.login_screen_background = QtWidgets.QLabel(self.login_central_widget)
    self.login_screen_background.setFixedSize(800, 500)
    self.login_screen_background.setPixmap(
        QtGui.QPixmap("Application Pictures and Icons/Login Screen Background.png"))

```

## 2.2 Sources

Our application makes use of various files, libraries, and images.

- Images were taken with due credit
- Libraries were imported from PyCharm IDE

## 2.3 Image Documentation (Special Page within Program)

- Logout icon
  - [https://www.flaticon.com/free-icon/logout\\_1828479?term=log+out&page=1&position=2&origin=search&related\\_id=1828479](https://www.flaticon.com/free-icon/logout_1828479?term=log+out&page=1&position=2&origin=search&related_id=1828479)
  - Available to the public for free and proper usage
  - All rights belong to the original author
- Application Pictures and Icons
  - All images about Canyons School District were acquired from <https://www.canyondistrict.org/>
  - All rights belong to the original author
- Announcement Pictures
  - All images were acquired from Hillcrest High School - <https://hhs.canyondistrict.org/>
  - All rights belong to the original author
- Dashboard Sidebar Pictures
  - All images were acquired from Hillcrest High School - <https://hhs.canyondistrict.org/>
  - All rights belong to the original author
- Spirit Quest Logo
  - Credits to team members for image use
  - Available to our project for free and proper usage
  - All rights belong to the original author

## 2.4 - Licenses

Spirit Quest makes use of various programs, libraries, and modules. We used these resources under all rules and guidelines, of which are outlined below.

- **Python:** All Python releases are Open Source, and is also GPL-compatible, which guarantees anyone the freedom to run, study, share, and modify
- **SQLite:** SQLite is released under the public domain and does not require a license to use. Permission to use, copy, modify and distribute its software and its documentation without fee and written agreement are hereby granted. The copyright notice below provides the exact details on the usage of the SQLite Database.

## Open-Source, not Open-Contribution

SQLite is open-source, meaning that you can make as many copies of it as you want and do whatever you want with those copies, without limitation. But SQLite is not open-contribution. In order to keep SQLite in the public domain and ensure that the code does not become contaminated with proprietary or licensed content, the project does not accept patches from people who have not submitted an affidavit dedicating their contribution into the public domain.

All of the code in SQLite is original, having been written specifically for use by SQLite. No code has been copied from unknown sources on the internet.

## Warranty of Title

[Buy An SQLite License](#)

SQLite is in the public domain and does not require a license. Even so, some organizations want legal proof of their right to use SQLite. Circumstances where this might occur include the following:

- Your company desires indemnity against claims of copyright infringement.
- You are using SQLite in a jurisdiction that does not recognize the public domain.
- You are using SQLite in a jurisdiction that does not recognize the right of an author to dedicate their work to the public domain.
- You want to hold a tangible legal document as evidence that you have the legal right to use and distribute SQLite.
- Your legal department tells you that you must purchase a license.

If any of the above circumstances apply to you, [Hwaci](#), the company that employs all the developers of SQLite, will [sell you a Warranty of Title for SQLite](#). A Warranty of Title is a legal document that asserts that the claimed authors of SQLite are the true authors, and that the authors have the legal right to dedicate the SQLite to the public domain, and that Hwaci will vigorously defend against challenges to those claims. All proceeds from the sale of SQLite Warranties of Title are used to fund continuing improvement and support of SQLite.

## Contributed Code

In order to keep SQLite completely free and unencumbered by copyright, the project does not accept patches. If you would like to suggest a change and you include a patch as a proof-of-concept, that would be great. However, please do not be offended if we rewrite your patch from scratch.

*This page last modified on 2022-04-18 02:55:50 UTC*

- **PyCharm:** PyCharm Professional Edition is an open-source software and can be used without any license.
- **PyQT5:** PyQt5 is released under the GPL v3 license and under a commercial license that allows for the development of personal applications.

## 3 - System Requirements

### 3.1 - Windows

- Operating System must be Windows 8 or above.
- Device must be able to install all of the necessary programs, libraries, and modules.
- Device must have at least 1GB of RAM.
- Device must have at least 1GB of storage space.

### 3.2 - Macintosh

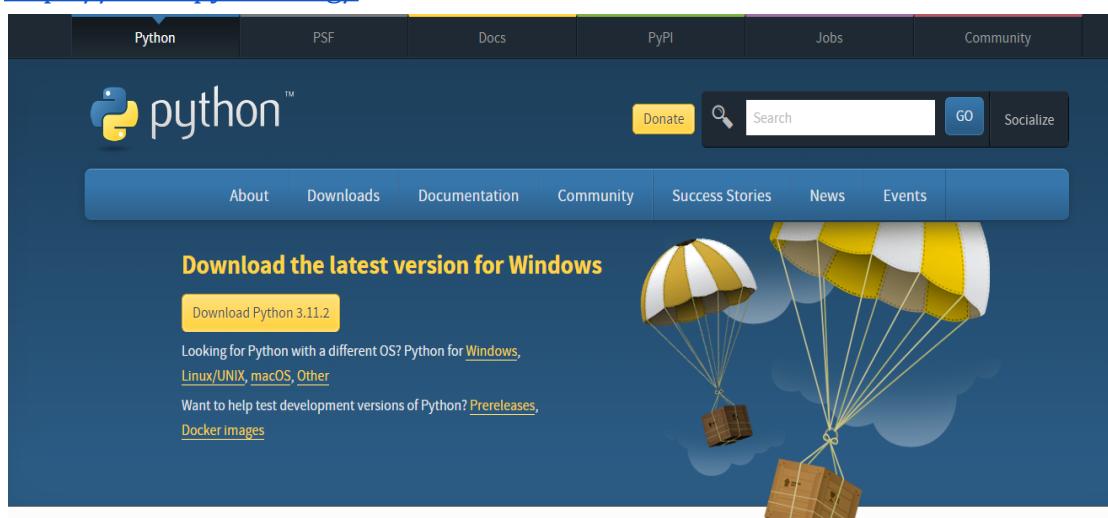
- Operating system must be macOS 10.14 or above.
- Device must be able to install all of the necessary programs, libraries, and modules.
- Device must have at least 1GB of RAM.
- Device must have at least 1GB of storage space.

## 4 - Requirements for Usage

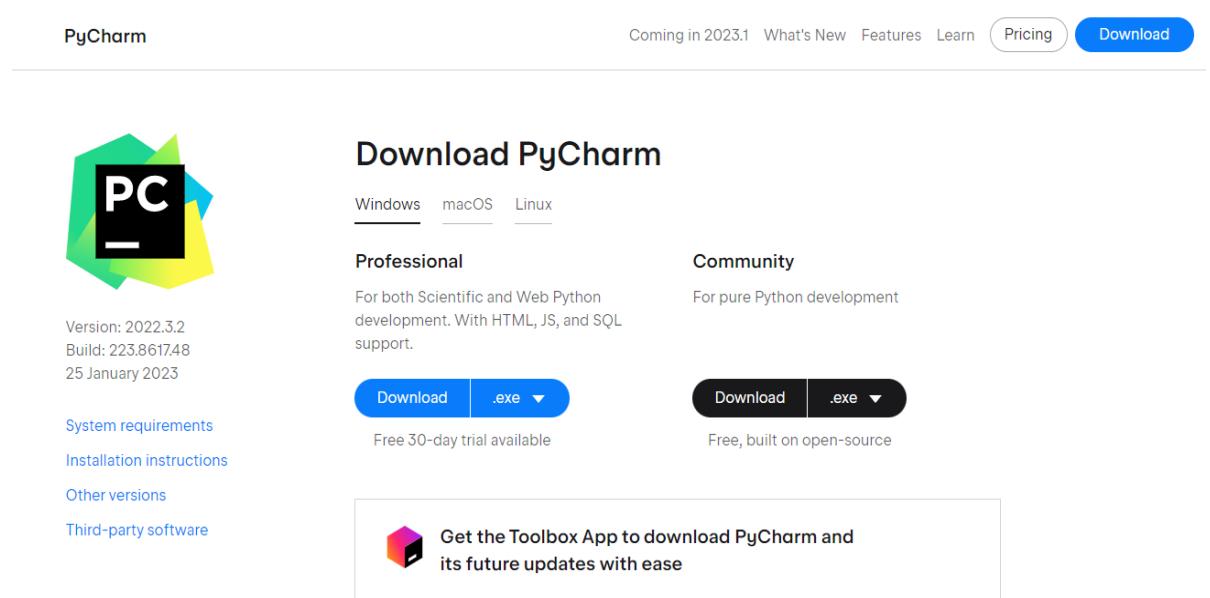
### 4.1 - Required Software

Spirit Quest uses various software technologies, programs and libraries. For the code to run properly, all of the following must be properly installed and implemented.

- Python, v3.9
  - Python is the language in which the code for Spirit Quest runs. Its usage follows a high-level, interpreted, and general-purpose programming philosophy, emphasis on code readability and functionality.
  - To install Python:
    - Go to the official homepage for the Python language - <https://www.python.org/>

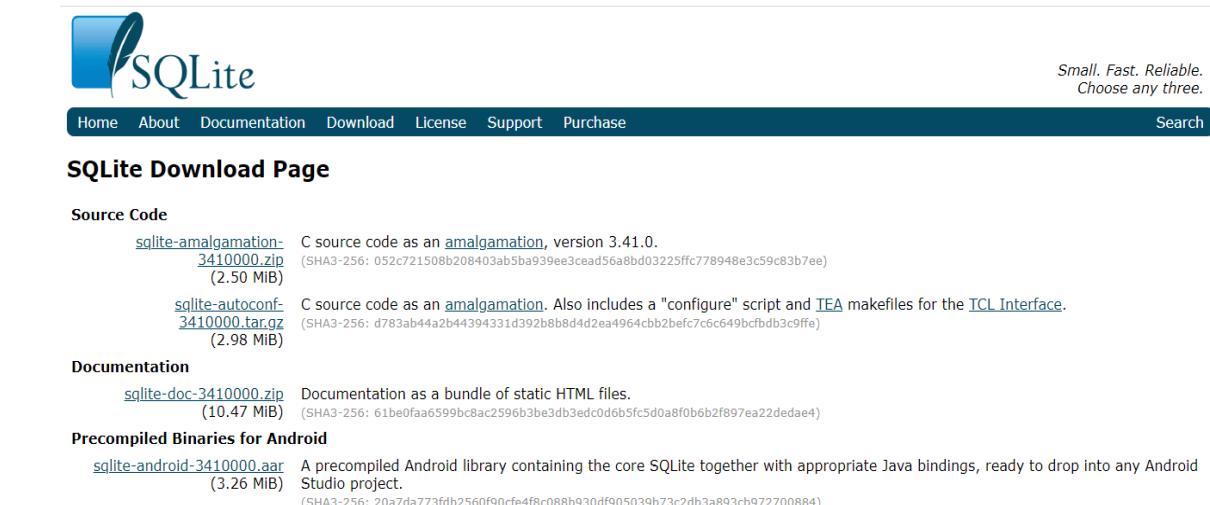


- Download the Python Installer, and follow all instructions until it is properly installed.
- PyCharm, v2023.1
  - For this application, PyCharm Professional Edition was used for development. To find the system requirements and installation details, go to - <https://www.jetbrains.com/pycharm/download/#section=windows>



The screenshot shows the PyCharm download page. At the top, there's a navigation bar with links for "Coming in 2023.1", "What's New", "Features", "Learn", "Pricing", and a prominent blue "Download" button. Below the navigation, there's a large PyCharm logo with the text "Version: 2022.3.2", "Build: 223.8617.48", and "25 January 2023". To the right, there's a section titled "Download PyCharm" with tabs for "Windows", "macOS", and "Linux". Under "Professional", it says "For both Scientific and Web Python development. With HTML, JS, and SQL support." and has a "Download .exe" button. Under "Community", it says "For pure Python development" and has a "Download .exe" button. A note below the Professional section says "Free 30-day trial available". A callout box in the bottom right corner says "Get the Toolbox App to download PyCharm and its future updates with ease".

- Download the PyCharm Installer and follow all instructions until properly installed.
- SQLite, v3.41.0
  - The SQLite database was used to hold all user data and to dynamically connect to the PyQt5 Application. For this project, version 3.41.0 was tested and implemented.
    - To find more about the library and the installation process, go to - <https://www.sqlite.org/index.html>



The screenshot shows the SQLite download page. At the top, there's a logo with a feather icon and the word "SQLite". To the right, there's a tagline "Small. Fast. Reliable. Choose any three." and a "Search" bar. Below the header, there's a main navigation bar with links for "Home", "About", "Documentation", "Download", "License", "Support", and "Purchase". The main content area is titled "SQLite Download Page". It has sections for "Source Code", "Documentation", and "Precompiled Binaries for Android". Under "Source Code", there are two options: "sqlite-amalgamation-3410000.zip" (2.50 MB) and "sqlite-autoconf-3410000.tar.gz" (2.98 MB). Both links have their file hashes listed below them. Under "Documentation", there's a link to "sqlite-doc-3410000.zip" (10.47 MB), which includes documentation as a bundle of static HTML files. Under "Precompiled Binaries for Android", there's a link to "sqlite-android-3410000.aar" (3.26 MB), which is described as a precompiled Android library containing the core SQLite together with appropriate Java bindings, ready to drop into any Android Studio project.

**Precompiled Binaries for Linux**

[sqlite-tools-linux-x86-3410000.zip](#) A bundle of command-line tools for managing SQLite database files, including the [command-line shell](#) program, the [sqldiff](#) program, and the [sqlite3\\_analyzer](#) program.  
(2.16 MiB) (SHA3-256: 7f6601bfc9ae63ff12d0136d71f41468618342e944c6777f0b3c5ec35646e37)

**Precompiled Binaries for Mac OS X (x86)**

[sqlite-tools-osx-x86-3410000.zip](#) A bundle of command-line tools for managing SQLite database files, including the [command-line shell](#) program, the [sqldiff](#) program, and the [sqlite3\\_analyzer](#) program.  
(1.54 MiB) (SHA3-256: 11a765584ee7819b5b734f95c89f788bcacf68912c7ca13082758181034f3ce5)

**Precompiled Binaries for Windows**

[sqlite-dll-win32-x86-3410000.zip](#) 32-bit DLL (x86) for SQLite version 3.41.0.  
(562.90 KiB) (SHA3-256: 4494fb1f53e713fe1782308ee3574db21a7fde6d477916b9c8bb7d2e293c93e)

[sqlite-dll-win64-x64-3410000.zip](#) 64-bit DLL (x64) for SQLite version 3.41.0.  
(903.85 KiB) (SHA3-256: e58b92f93d54348cea1351479719f9685fc86a043841b569bc3528b8b2ba1536)

[sqlite-tools-win32-x86-3410000.zip](#) A bundle of command-line tools for managing SQLite database files, including the [command-line shell](#) program, the [sqldiff.exe](#) program, and the [sqlite3\\_analyzer.exe](#) program.  
(1.91 MiB) (SHA3-256: 94c8e42e1cc9cb92a3781dbbcd36d3a3227e94bea6e0ff7aa12fce78a745210)

- Database Tables

- Once the database is successfully connected to PyCharm, the following tables need to be added to 'identifier.sqlite'.

- Administrators Table

```
create table main.administrators
(
    ID           SERIAL
        primary key,
    FIRST_NAME   VARCHAR(500)  not null,
    LAST_NAME    VARCHAR(500)  not null,
    SECURITY_QUESTION VARCHAR(5000) not null,
    SECURITY_ANSWER  VARCHAR(5000) not null,
    EMAIL_ADDRESS  VARCHAR(500)  not null,
    PASSWORD      VARCHAR(2000) not null,
    AUTHENTICATION_KEY INTEGER,
    BIRTHDAY      VARCHAR(500)  not null,
    SCHOOL        VARCHAR(500)  not null,
    TYPE          VARCHAR(500)  not null,
    IMAGE_LINK_SRC VARCHAR(5000)
);
```

## ■ Announcement Table

```
create table main.Announcement
(
    ID          SERIAL
    primary key,
    NAME        VARCHAR(500) not null,
    DETAILS     VARCHAR(500) not null,
    ADDRESS     VARCHAR(5000) not null,
    LONGITUDE   VARCHAR(5000) not null,
    LATITUDE    VARCHAR(500) not null,
    IMAGE_LINK_SOURCE VARCHAR(2000) not null
);
```

## ■ Approval Table

```
create table main.approval
(
    ID          SERIAL
    constraint ID
    primary key,
    FIRST_NAME  VARCHAR(500),
    LAST_NAME   VARCHAR(500),
    POINTS      integer,
    EVENT       VARCHAR(500),
    RATING      VARCHAR(500),
    DESCRIPTION VARCHAR(500)
);
```

### ■ Events Table

```
create table main.events
(
    ID          SERIAL
        primary key,
    NAME        VARCHAR(200) not null,
    DESCRIPTION VARCHAR(2000) not null,
    ADDRESS     VARCHAR(300) not null,
    TYPE        VARCHAR(50) not null,
    POINTS      INTEGER,
    YEAR        INTEGER,
    MONTH       INTEGER,
    DAY         INTEGER,
    LATITUDE    NUMERIC(11, 8),
    LONGITUDE   NUMERIC(11, 8),
    IMAGE_LINK_SRC VARCHAR(50000)
);
```

### ■ Rewards Table

```
create table main.rewards
(
    ID          SERIAL
        primary key,
    NAME        VARCHAR(300) not null,
    DESCRIPTION VARCHAR(2000) not null,
    POINTS      VARCHAR(2000) not null,
    IMAGE_LINK_SRC VARCHAR(50000),
    intpoints    integer
);
```

### ■ Slideshow Table

```
create table main.slideshow
(
    ID          SERIAL
        primary key,
    TITLE       VARCHAR(2000) not null,
    DESCRIPTION VARCHAR(8000) not null
);
```

## ■ SQLite Master Table

```
create table main.sqlite_master
(
    type      TEXT,
    name      TEXT,
    tbl_name  TEXT,
    rootpage  INT,
    sql       TEXT
);
```

## ■ Students Table

```
create table main.students
(
    ID                      SERIAL
    primary key,
    FIRST_NAME              VARCHAR(500) not null,
    LAST_NAME                VARCHAR(500) not null,
    SECURITY_QUESTION        VARCHAR(5000) not null,
    SECURITY_ANSWER          VARCHAR(5000) not null,
    EMAIL_ADDRESS            VARCHAR(500) not null,
    PASSWORD                 VARCHAR(2000) not null,
    GRADE                    INTEGER,
    BIRTHDAY                 VARCHAR(500) not null,
    SCHOOL                   VARCHAR(500) not null,
    TOTAL_EVENTS_ATTENDED    INTEGER,
    POINTS                   INTEGER,
    IMAGE_LINK_SRC           VARCHAR(50000),
    EMERGENCY_CONTACT_NAME   VARCHAR(500),
    EMERGENCY_CONTACT_PHONE_NUMBER VARCHAR(200),
    EMERGENCY_CONTACT_EMAIL   VARCHAR(500),
    GENDER                   VARCHAR
);
```

- The Database is now fully completed and now functioning.

## 4.2 - Packages and Modules

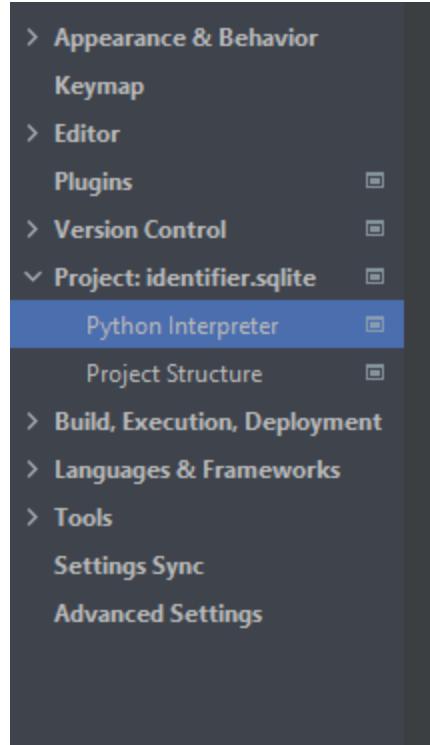
To run Spirit Quest, various packages and modules were used.

- The PyQt5 module is a comprehensive set of Python bindings, implementing high-level APIs for accessing many aspects of modern desktop and mobile systems, covering more than 35 extension modules.
- The ast module helps Python applications to process trees of the Python abstract syntax grammar. The abstract syntax itself might change with each Python release; this module helps to find out programmatically what the current grammar looks like.
- The os module provides a portable way of using operating system dependent functionality.
- The webbrowser module provides a high-level interface to allow displaying web-based documents to users.
- The io module provides Python's main facilities for dealing with various types of Input/Output.
- The folium module builds on the data wrangling strengths of the Python ecosystem and the mapping strengths of the Leaflet.js library. Manipulate your data in Python, then visualize it in a Leaflet map via folium.
- The time module provides various time-related functions such as the event dates and the calendar.

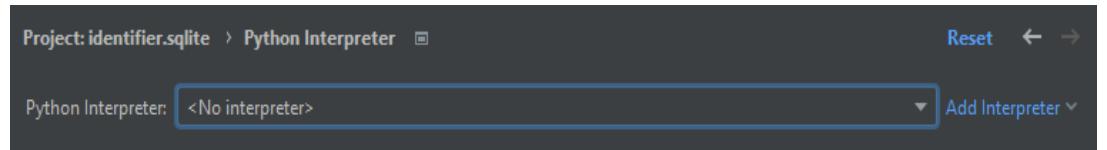
## 4.3 - Accessing Packages

- This application requires various packages and modules to operate. You will need to import the aforementioned packages into your Pycharm IDE.
  - To import packages:
    - You will first need to select an interpreter. On the top right of the screen, select the Settings Icon
    - On the left, select Python Interpreter

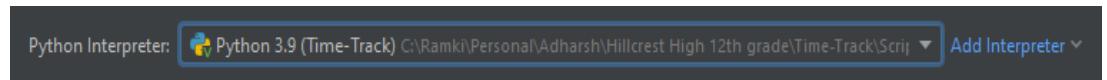




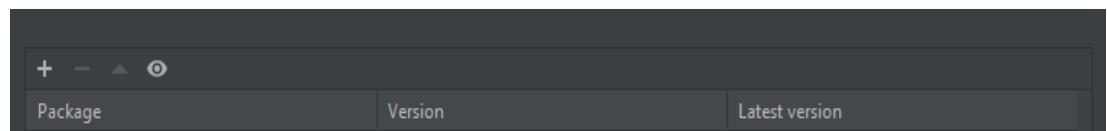
- Select Add Interpreter on the Top Right of the Screen



- Select the base interpreter that matches your device and your version of Python.



- Now that you have selected an interpreter, install the packages listed above.
  - To do so, from the packages menu, select the + button.



- From the Menu on the left, search for the modules listed above



- Select Install Package on the Bottom Left of the Screen once you have selected the Module

Install Package

- Select OK and repeat until all the Modules listed above have been installed.

## 4.4 - Accessing Source Code

- All necessary files for the application are stored on Github, a hosting site for project management and version control. The source code includes everything related to running our application and updating users within the database for proper and secure usage of the application
- To access the source code of this project, go to <https://github.com/> and log in using your email and password
  - Once this is complete, find our repository, Spirit Quest - <https://github.com/AdhuBavu2/Time-Track-Nationals>

The screenshot shows the GitHub repository page for 'Time-Track-Nationals'. At the top, it says 'Time-Track-Nationals Private'. Below that, there are buttons for 'Watch 1', 'Fork 0', and 'Star 0'. The main area shows a list of recent commits:

File	Description	Time Ago
.idea	oi oi	2 weeks ago
Announcement Pictures	eye	last week
Application Data and Documentatio...	...	last week
Application Pictures and Icons	images	5 hours ago
ChatGPT Icons	create account frame functionality finished	last month
Dashboard Sidebar Pictures	First Commit	last month
Rewards Pictures	fixed image sizes for rewards pictures	19 hours ago
__pycache__	finished creating rewards page	19 hours ago
uploads	no d	2 days ago
.DS_Store	Revert "upcoming events and maps done"	5 hours ago
README.md	why did it change?	2 weeks ago

On the right side, there are sections for 'About', 'Releases', and 'Packages'. The 'About' section notes 'No description, website, or topics provided.' The 'Releases' section says 'No releases published' and 'Create a new release'. The 'Packages' section says 'No packages published' and 'Publish your first package'.

- Select the Green Button that states “<> Code”

The screenshot shows the 'Code' button dropdown menu. It has tabs for 'Local' and 'Codespaces'. Under 'Local', there is a 'Clone' section with 'HTTPS' selected, showing the URL <https://github.com/AdhuBavu2/Time-Track-Nationals>. Below that, it says 'Use Git or checkout with SVN using the web URL.' There are also links for 'Open with GitHub Desktop' and 'Download ZIP'.

- Select “Open With GitHub Desktop”
  - If GitHub Desktop is not downloaded and installed, go to - <https://desktop.github.com/>



- Download the proper version according to your device and follow all instructions until properly installed.
- Once installed, open the repository through GitHub Desktop

Open GitHubDesktop?

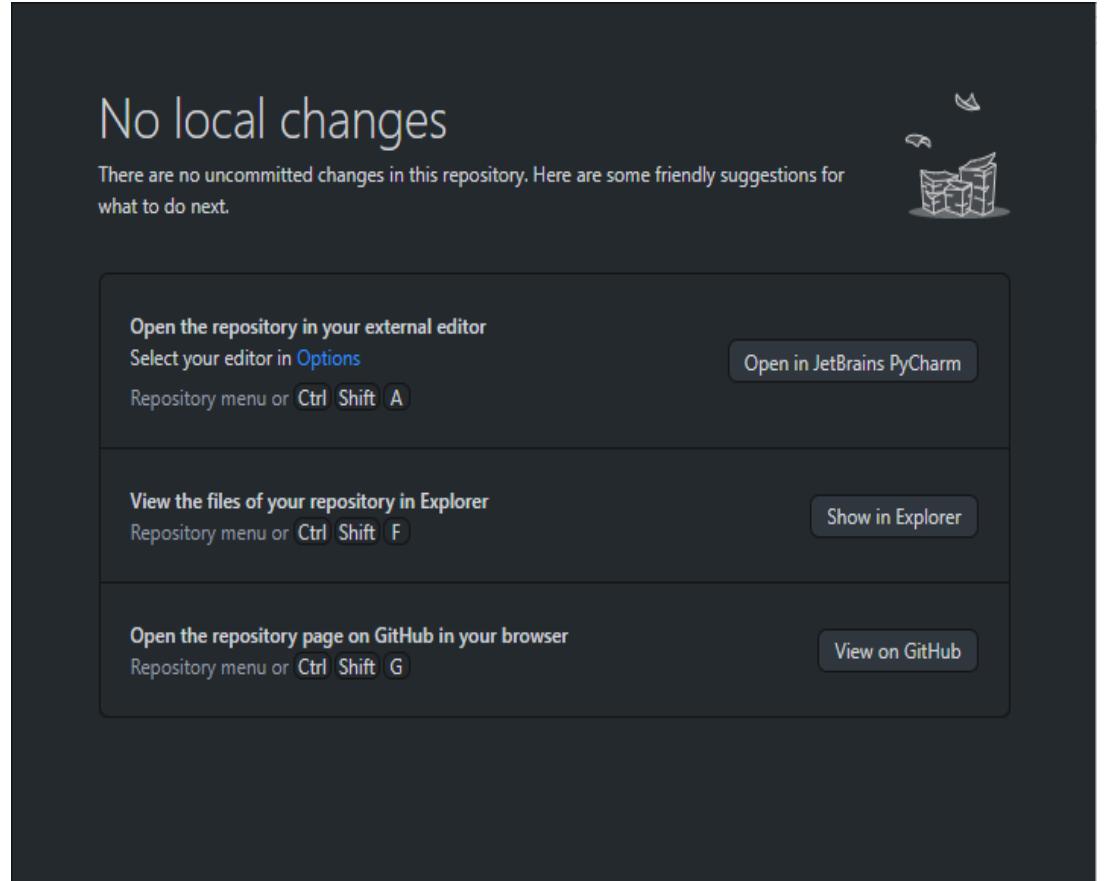
<https://github.com> wants to open this application.

Always allow [github.com](https://github.com) to open links of this type in the associated app

[Open GitHubDesktop](#)

[Cancel](#)

- Once installed, clone the repository to a folder in your device.
  - After the repository has been cloned, select Open in JetBrains PyCharm



- With all of that, the application with all of the source code should be available on your own device.

## 5 - Version History

### 5.1 - Previous Versions

- Version 1.0
  - Application opens in PyQt5 window
  - Basic log in features that are stored locally within the program itself
    - No relational database used for secure storage
  - Limited window design and styling
  - Limited display ability
- Version 2.0
  - Database created on local machine to store data
    - All attributes and students + administrators tables added to database
    - Limited data table
    - Attribute properties in database managed
  - Ability to subtract points when rewards are purchased fully implemented.
  - Calendar and Map features implemented.
- Version 3.0
  - Full database completed with all tables and attributes
  - Adding points fully implemented with approval from administrators.
  - Selection of random winners implemented on the administrator panel.
  - Styling of the application fully completed
  - Other features
    - Administrators can add announcements which are displayed on the students panel.
    - Administrators can create events and manage students.

### 5.2 - Current Version

- Version 4.0
  - Recreated Login Screen with a brand new logo, featuring Spirit Quest, Unleash your School Spirit.
  - Enhanced user data security with encryption and password-hiding feature.
  - Dynamic database introduced, where all data is saved on separate Excel files.
  - Resized the entire program to 1150 by 650.
  - Create an account and forgot password fully functional with extra security
  - Interactive side announcements on the student dashboard, and fixed slideshow for more images.
  - Upcoming events tab on the student and admin side have more events 2 months in advance, with multiple events taking place every day in the district.

- All events also migrated to the maps tab in order for users to have a simpler experience and access to more locations.
- Dynamic leaderboard that updates in real-time is introduced with gold, silver, and bronze users, with their respective points on the leaderboard.
- All events linked to the dropdown, so users can add experiences, and ratings in the points tab, which is then sent for administrator review.
- More prizes added to the rewards tab! Spans over 10 rows of exciting school prizes, food prizes, and spirit prizes. Redemption feature also live updates the total points.
- New Community group chat feature was introduced, facilitating student communication with each other and the administrators.
- Students can generate their own output reports with just a click of a button, allowing them to see all the events they have attended in the past and all the prizes they have purchased.
- Students can also view their own student user documentation in order to easily navigate through the program.
- Sources, Licenses and References are also accessible within the program.
- FAQ page created for students with special requests button for admins to get back to students on questions not answered by the user documentation or FAQ page.
- Spirit Assistant created. This is a custom-made artificial intelligence feature in Spirit Quest, allowing students to ask questions to AI, and it provides the answer to students, however, the primary purpose is to allow students to gain more insights into school events they would like based on their interests.
- Random winner and the winner with the most time feature created on the statistics page for the administrator.
- Student view frame created for the administrators, creating a list of all students and their information.
- The frame also includes buttons for the output reports for the administrators, which are fully customizable and can easily be analyzed.
- Sources, licenses, and References button is also created for the admins, along with the user documentation (this document) in order to provide the administrator with a relaxed experience throughout Spirit Quest.

### 5.3 - Future Versions

- Increased performance and efficiency of the application
- Make the application reachable to other schools as well
- Improve aesthetics and styling of the application
- Better user security for logins and passwords

