#### V1.0

**Focus:**

* Program working for users of Android and IOS mobile devices.
  + Android TV too?
* Teaching lots of Latin {Bachata} dance moves
* Teaching a few Latin (Bachata) dance routines

**Anticipated challenges:**

* [Having to avoid using features that work on one OS but not the other OS](https://bugreports.qt.io/browse/QTBUG-72086)
* Having to dance well
* Having to present oneself well
* Having to find a dance partner for the demonstrations
  + Can be me, solo for the explanation videos for the leader
* Having to take decent videos
* Having to keep the footprint of the app small whilst having HQ assets
* Having to make sure that the videos are quick to load. Don’t want to wait for them to buffer
* Having to accommodate small screen sizes

**What we will make use of:**

* C++ 20
* QT 6
* [QT QML language](https://doc.qt.io/qt-6/qtqml-index.html)
* [QT for IOS](https://doc.qt.io/qt-6/ios.html)
* [QT for Android](https://doc.qt.io/qt-6/android-getting-started.html)
* [Qt Quick Controls - Side Panel](https://doc.qt.io/qt-6.2/qtquickcontrols-sidepanel-example.html) example

**What we might make use of:**

* [Felgo 4.0 SDK integrated with QT](https://blog.felgo.com/updates/release-felgo-4-qt-6-cross-platform-apps)
* [JavaScript called from QT](https://doc.qt.io/qt-6/qjsengine.html)
* [Java called from QT](https://doc.qt.io/qt-6/qtcore-platform-androidnotifier-example.html)

**Features to add:**

|  |  |
| --- | --- |
| **Implementation status** | **Feature** |
|  | Having a welcome screen |
|  | Having a togglable sidebar that moves from the LHS of the screen to the RHS. Having an animation for the sidebar showing and hiding |
|  | Having a log-in screen.  Getting users to create an account. |
|  | Having a quitting the app screen  Having an option to delete one’s account  Having an option to log-out of one’s account |
|  | Having an option to tick off moves that have been learnt. Saving this information to the user account |
|  | Having short videos of someone demonstrating the move. Should be < 1 minute with no talking |
|  | Having shortish videos that show a person explaining how to perform the move:   * With an indication of what to do at each count * With proper technique |
|  | Having an option to toggle between demonstrations of the move and an explanation of how to perform the move  For the explanations of the move (not demonstration as both leader and follower dance together), have a toggle for leader and follower |
|  | Having a menu at the bottom of the screen to choose between   * “Routines” * “Moves” * “Articles” |
|  | Having dance articles   * E.g. On what attire to wear * E.g. On if a partner is needed * E.g. On the differences between styles of bachata (moderna, sensual, and Dominican) |
|  | Having an achievement screen   * Awarding achievements if the user has finished learning all the moves of a style for each level (beginner, intermediate, and advanced) |
|  | Having an option to set preferences that filter what the user of the program sees   * **Role** * Leader * Follow * **Level** * Beginner * Intermediate * Advanced * **Style** * Bachata |
|  | Having a page that provides information about the instructors |
|  | Having tags on the videos   * Level * Style * Instructor * Video type * Choreography / Move |
|  | Having an option to return to recently watched video as well as to saved videos |
|  | Having an option to download the videos so that users can practice them without the Internet or share the moves with other people |
|  | Having an option to move back and forward 5 seconds in the video |
|  | Having an option to loop videos |
|  | Having an option to stream to TV https://steezy.zendesk.com/hc/en-us/articles/360052415191-Casting-class-on-STEEZY-Studio |
|  | Having a fullscreen option for the video |
|  | Having a dark and light mode |
|  | Having a share app link button |
|  | Having a rate app button |
|  | Having an option to search for the name of a specific move that one is looking for |
|  | Having an option to only download over WI-FI |

#### V2.0

**Focus:**

* Teaching musicality

**What we might make use of:**

* [Media player example](https://doc.qt.io/qt-6/qtmultimedia-player-example.html)

|  |  |
| --- | --- |
| **Implementation status** | **Feature** |
| Having a dance song | |
|  | Having a built-in song |
|  | Having the option to import one’s own songs |
| Having a way to mark points of the song like Guitar Hero does | |
|  | Having markers that can be applied to the song and manipulated (moved around to different parts of the song, deleted, and inserted) |
|  | Having a way to automatically add markers based on an analysis of the song, perhaps using the BPM |
| Having a way to tap to the beat | |
|  | **Getting user input via**   * Screen taps   OR   * Button taps |
| Having a visual indicator for if user successfully tapped to the beat | |
|  | Having the screen turn red if off beat |
|  | Having the screen turn green if on beat |
|  | Having a goofy animation play if the user is in fact following the beat correctly  <https://youtu.be/fpmgmupPIJw> |
| Show how successful the listener is at following the beat from the beginning to end of the song | |
|  | * Tracking the number of times the user followed and did not follow the beat |
|  | * Results screen shown after song finishes |

#### V3.0

**Focus:**

* Teaching lots of Latin International {cha cha, rumba, samba, paso doble, and jive} moves
* Teaching a few Latin International routines

**Features to add:**

|  |  |
| --- | --- |
| **Implementation status** | **Feature** |
|  | Having a menu to choose between the dance style one would like to learn |