

Tuner & Metronome Application Project Risk Analysis

1. Technical Development

Proper functionality of application features is highly dependent on the successful implementation of low-level audio processing capabilities such as playback and recording. The risk is that the project programmer might run into hurdles in the technical implementation of the core feature set, which has the potential to cause significant delays in the project development timeline. Risk mitigation efforts would include encouraging the programmer to pose questions in Apple development community groups or forums, consulting outside technical advisors, and recruiting an additional programmer onto the team.

2. Deliverable Scheduling

On-time release of base features is crucial for keeping on-track in the project development timeline. The greatest risk for delays is anticipated to come from programming and testing efforts. Risk mitigation efforts would include adding more team members under the direction of the team leaders, especially programmers, localizers, and testers. Another option is to work with outside service providers such as technical consulting, translation, and testing providers.

3. Application Testing

Thorough testing using physical devices and simulators is necessary to ensure seamless performance across all supported hardware devices and software platforms. The application will be supported on iPhone and iPad devices running iOS 16.1 and iPadOS 16.1 or later. The risk is that given the number of devices, features, and edge cases to test, certain devices may not undergo enough testing so as to find out all possible issues. Risk mitigation efforts would include recruiting additional testers onto the team, working with an outside software development testing provider, and encouraging public preview users to provide feedback and detail any issues they encounter.

4. Team Collaboration and Cohesion

Considering the small team size, members ought to share a common vision for the project, work closely together, and strive toward unity of purpose and group cohesion. The risk is that unclear objectives, miscommunications, or misunderstandings between team members may hinder project progress. Risk mitigations efforts, therefore, would be to have appropriate conflict resolution policies, promote mutually respectful communication, and encourage team members not to escalate or involve the project manager or project sponsor without first attempting to resolve issues directly. Team members are expected to provide their teammates with a margin for error, show goodwill and flexibility, and seek to resolve any conflicts peacefully with the greater good in mind.