Quizza

An overview of the development and planning process





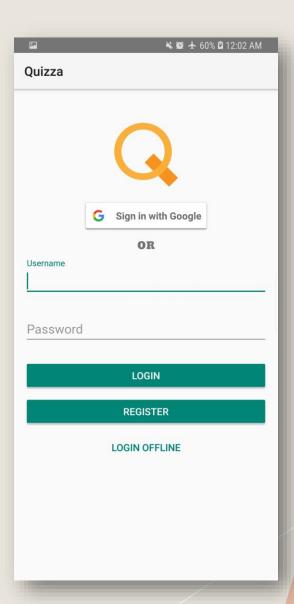
LEAVE YOUR MARK

FUTURE BUSINESS LEADERS OF AMERICA - PHI BETA LAMBDA

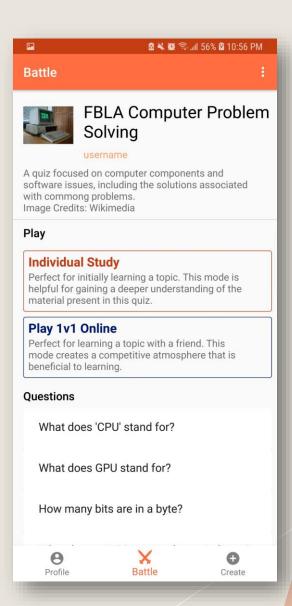
Modern and interactive approach to learning



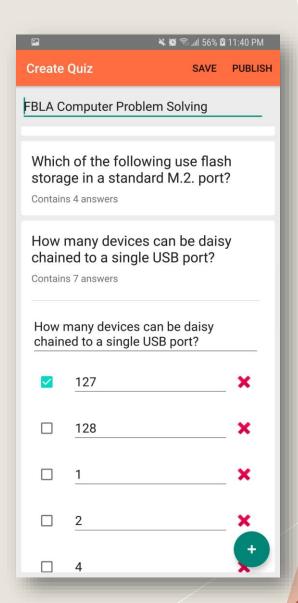
- Modern and interactive approach to learning
- Creatable user accounts



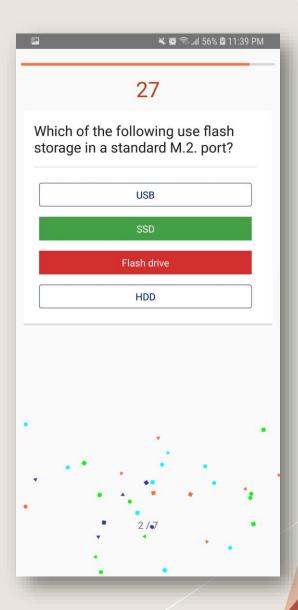
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- Online and offline quiz creation and battles



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- ► In-app quiz editor



- Modern and interactive approach to learning
- Creatable user accounts
- Online and offline quiz creation and battles
- ► In-app quiz editor
- Instant feedback on answers
- ► Easy-to-use bug reporting system



App Usefulness

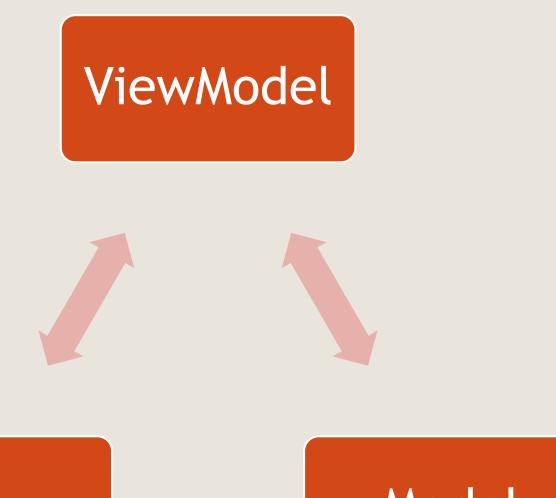
- ► Target Audience: FBLA members
- ▶ Benefits:
 - ► Modern and interactive method of learning
 - ► Multiplayer offers a competitive setting
 - ► In app creation of quizzes allows for the sharing of knowledge

App Usefulness

- ► Target Audience: FBLA members
- **Effects:**
 - ► FBLA members will get higher scores in events
 - ► FBLA members will gain an additional method of interaction with the organization
 - ► FBLA members will gain a deeper understanding of FBLA and its goals and vision

Code Design and Planning

- Strategies
 - ► Offline First Approach
 - Dependency Injection
 - ► Feature Based Approach
 - ► Model View ViewModel (MVVM)
 - ► Decoupled Classes
 - Object Oriented Approach



View

Project Structure - App

Model

Game Server • Connects to MongoDB ViewModel API • Connects to MongoDB View Model Project Structure - Project

User Interface Planning

- ► Goals:
 - ► Modern
 - Intuitive
- ► Extensive user testing took place
- ▶ Planning included mock layouts and design sketches

Alternate Platforms - iOS/Swift



Pros

- Most users are on the latest version
- Device compatibility issues are limited

Cons

- Development requires an Mac development machine
- Closed nature of the app store

Alternate Platforms - Flutter/Android+iOS



Pros

- Cross-Platform (supports iOS and Android)
- Hot-reload capabilities, allowing for quick development cycles

Cons

 At the start of development of Quizza, Flutter was still in alpha

Alternate Platforms - Kotlin/Android



Pros

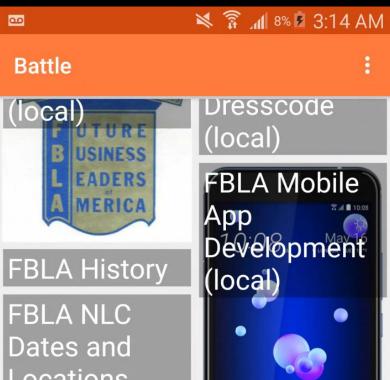
- Can be compile to support crossplatform use
- Language features enable quick development
- Large number of compatible resources

Cons

Slower compilation times

Example Usage - Offline Play





Locations

FBLA Dresscode

FBLA Computer Problem Solving



FBLA Mobile App Development







Example Usage - Quiz Creation

