SmartGlass Analytics –
Sprint 1

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Gabe Gros

Chris Hellen

Ethan Schwalbach

Aiden Carroll

Kendall Hamm

Project Focus

- Original Focus
  - Leverage computer vision to track live stats of players by use of Smart Glasses
  - Display relevant stats on Smart Glass screen
- Reworked Focus
  - Build third party app on host tablet to keep up with stats from provided API
  - Enable user of tablet to display whatever stats they prefer to see at that time

Sprint Goals

- Gather all necessary tools from our sponsor
  - Glasses, tablet, access to live stats API
- Create starter app on Android Studio
  - Establish baseline skills and knowledge of development environment to build upon for future iterations

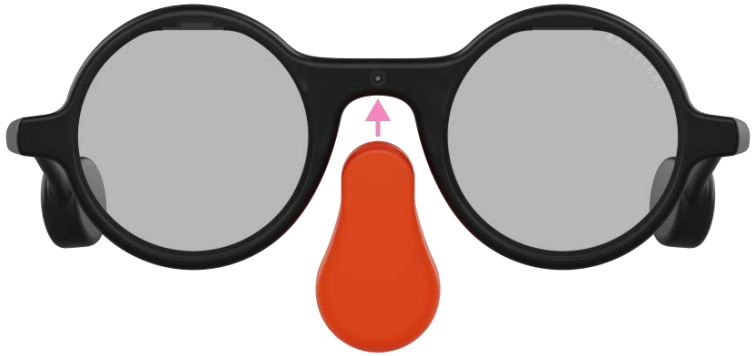
Major Sprint Achievements/Feedback from Sponsor

Major Achievements

- Defined sponsor expectations for system design
  - Had to reorient from sponsor's original idea for system implementation
  - Pivoted to developing a system that can deliver real time statistical information to the glasses in a game scenario
- Created sample Android app for use on ELO tablets

Feedback from Sponsor

- Sponsor was extremely receptive and understanding of questions/comments/concerns regarding orignal goals for implementation
- In full support of our efforts to design a system to best meet their expectations



Project & Sprint Backlog

ID	Story	Estimated Hours	Priority (1-5)	Sprint When Finished
1	Prototype Glasses Screen	4	5	
2	Research Glasses API	8	1	1
3	Understand Previous Group's Model	5	4	1
4	Research Sending data to Glasses		3	1
5	Research ELO tablet, try to emulate it in Android Studio	3	2	1
6	Prelim App UI Design	3	1	1
7	Research python in Android Studio		2	1
8	Use Synergy Practice API		3	1
9	Create Android Studio App, Link to Github	3	1	1
10	Design Info Delivery System	12	1	1

Sprint Contributions

Whole Team

Researching previous groups progress, Establish new design for information delivery system

Gabe Gros

Determine viability of real-time information, Research smart glasses API

Chris Hellen

Research glasses information delivery, Research using Python in Android Studios

Aiden Carroll

Setup Android Studio, create sample app, Setup digital Android emulator

Kendall Hamm

Create Project website, Research glasses information delivery, Setup digital Android emulator

Ethan Schwalbach

Research glasses information delivery, Research Synergy API

What was not completed/Lessons Learned

Not Completed

- Limited development progress due to frequent sponsor meetings and project scope redefinition.
- Initial technical implementations were delayed as project direction was unclear.
- Certain planned features or prototypes were postponed until finalizing project specifications.
- Integration of key components (e.g., API, UI, or database) was put on hold until the project direction was solidified.
- Testing and debugging were not prioritized as the core architecture was still being refined.

Lessons Learned

- Importance of clear requirements
- Knowing hardware constraints
- Importance of frequent communication

Android

app
manifests
AndroidManifest.xml
kotlin+java
com.example.smartglassapplication
ui.theme
MainActivity.kt
com.example.smartglassapplication (and
ExampleInstrumentedTest
com.example.smartglassapplication (tes
ExampleUnitTest
res
drawable
layout
activity_main.xml
mipmap
values
colors.xml
strings.xml
themes.xml
xml
res (generated)
Gradle Scripts

MainActivity.kt | activity_main.xml | colors.xml | strings.xml

Edit translations for all locales in the translations editor. Open editor Hide notification

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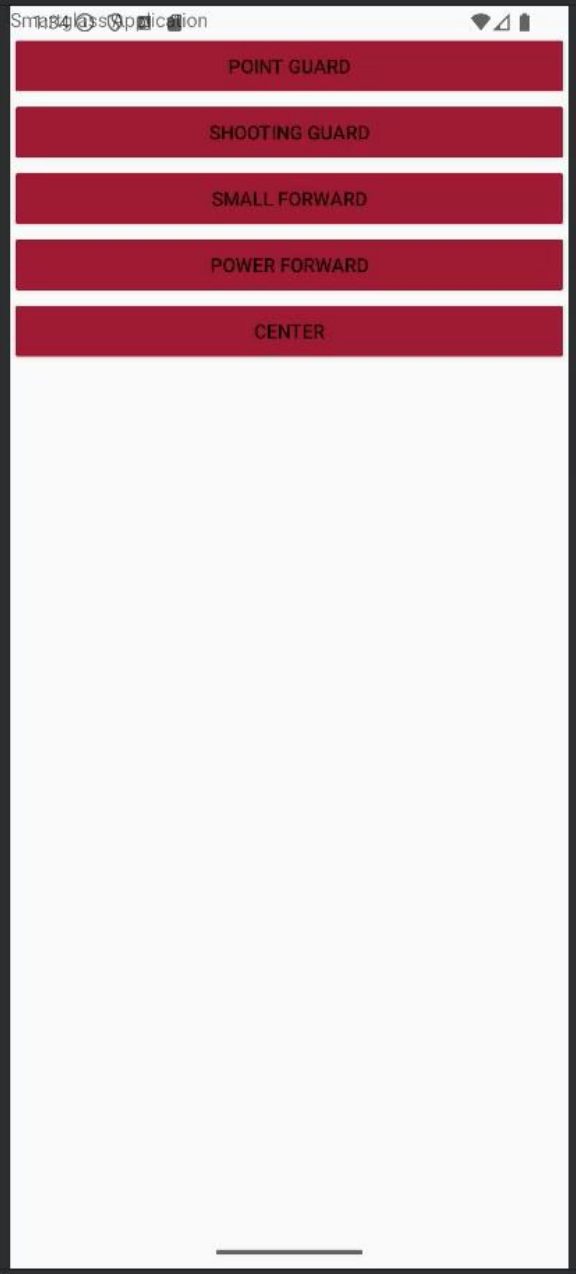
    <string name="sg">Shooting Guard</string>
    <string name="sf">Small Forward</string>
    <string name="pf">Power Forward</string>
    <string name="c">Center</string>
</resources>
```

Running Devices | Medium Phone API 35



smartglass › app › src › main › res › values › strings.xml

8:13 CRLF UTF-8 4 spaces