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CSC 480 Software Engineering

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Assignment 3

The third assignment had us learning Firebase, and how to link it with an Android application. I found that I had to update my version of Android Studio to compile the project supplied by the Google Codelab.

Figures 1-4 show the frontend user experience, while Figures 5-8 show the backend Firebase database.

App features:

- Sign in to your Google account
- Send an image (Figure 1)
- Send text (Figure 2)
- Read messages from the database
- Send an invite link (Figure 3)
- Receive reengagement notifications (Figure 4)

Database records:

- Authenticated users (Figure 5)
- Database structure of messages (Figure 6)
- Send reengagement notifications (Figure 7)
- Image file storage (Figure 8)

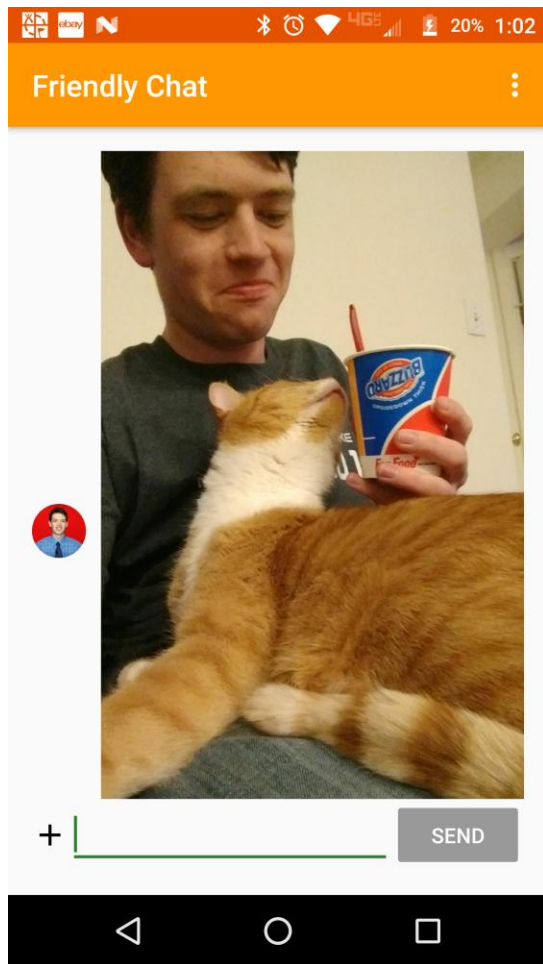


Figure 1

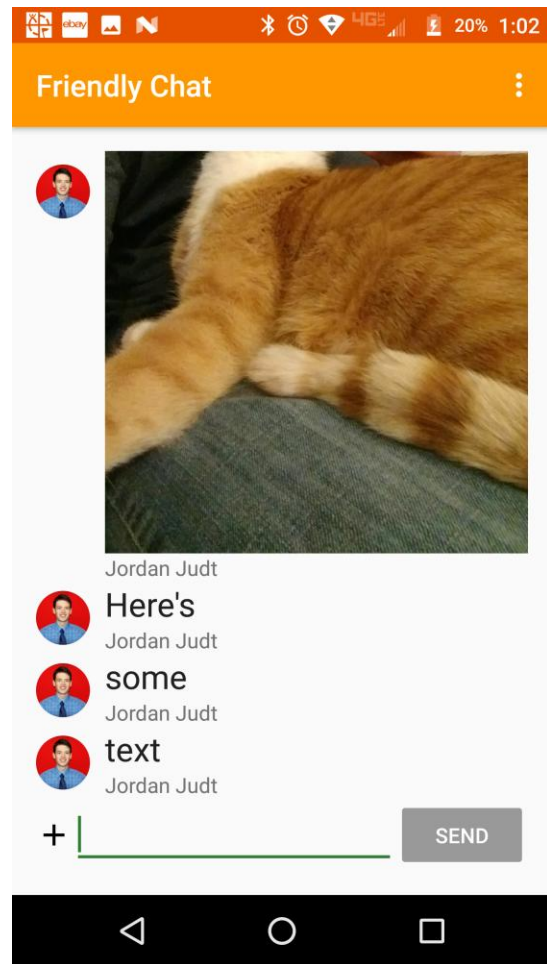


Figure 2

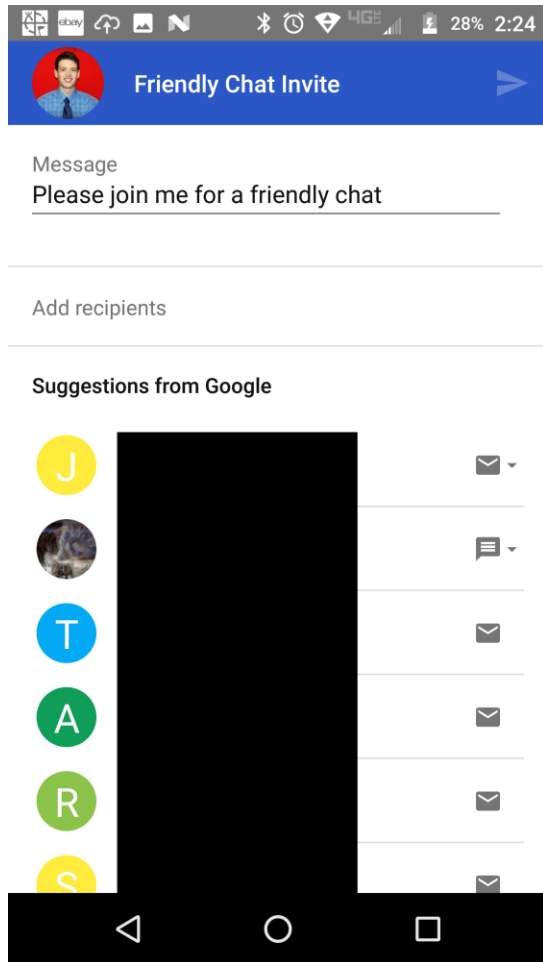


Figure 3

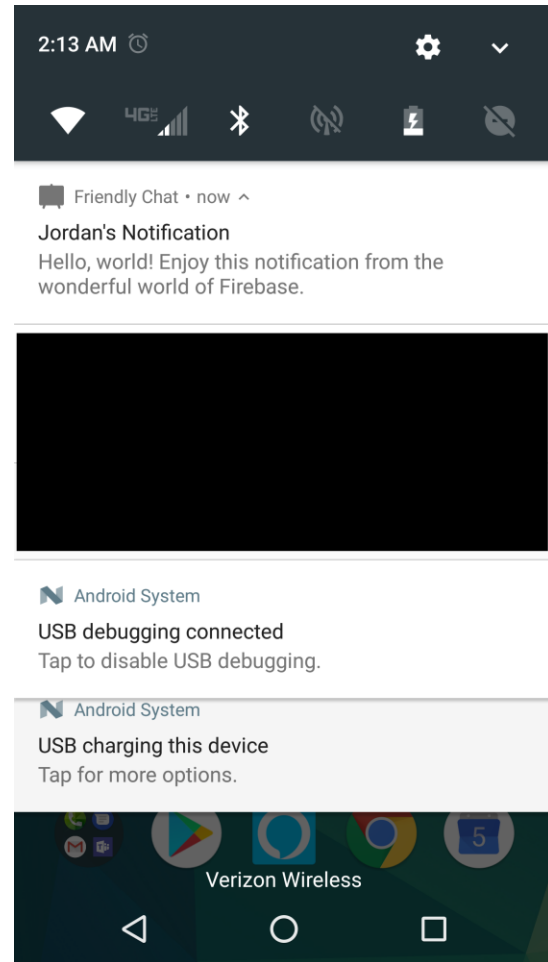


Figure 4

<div> <div> Search by email address, phone number, or user UID </div> <div> <div>ADD USER</div> <div> </div> </div> </div>				
Identifier	Providers	Created	Signed In	User UID ↑
jmjudt96@gmail.com		Sep 6, 2017	Mar 3, 2018	xG3JjZ73XidFaa7sn19Gf7p0Jqs1
<div> <div>Rows per page: 50</div> <div>1-1 of 1</div> <div> </div> </div>				

Figure 5

<div> <div> https://friendlychat-e1064.firebaseio.com/ </div> <div> <div>+</div> <div>-</div> <div>⋮</div> </div> </div>	
<div>friendlychat-e1064</div> <div> <div> <div>messages</div> <div> <div>-ABCD</div> <div> <div>name: "Mary"</div> <div>text: "hello"</div> </div> </div> <div> <div>-K2ib4H77rj0LYewF7dP</div> <div> <div>name: "anonymous"</div> <div>text: "Hello"</div> </div> </div> <div> <div>-K2ib5JHRbbL0NrztUf0</div> <div> <div>name: "anonymous"</div> <div>text: "How are you"</div> </div> </div> <div> <div>-K2ib62mjHh34CAUbide</div> <div> <div>name: "anonymous"</div> <div>text: "I am fine"</div> </div> </div> <div> <div>-L6oxguHrXshfhOe02oY</div> <div> <div>imageUrl: "https://firebasestorage.googleapis.com/v0/b/frj"</div> <div>name: "Jordan Judt"</div> <div>photoUrl: "https://lh6.googleusercontent.com/-1-087yXvbLI,"</div> </div> </div> <div> <div>-L6oxnUvl4dn0799RNHP</div> <div> <div>name: "Jordan Judt"</div> <div>photoUrl: "https://lh6.googleusercontent.com/-1-087yXvbLI,"</div> <div>text: "Here's"</div> </div> </div> </div> </div>	

Figure 6

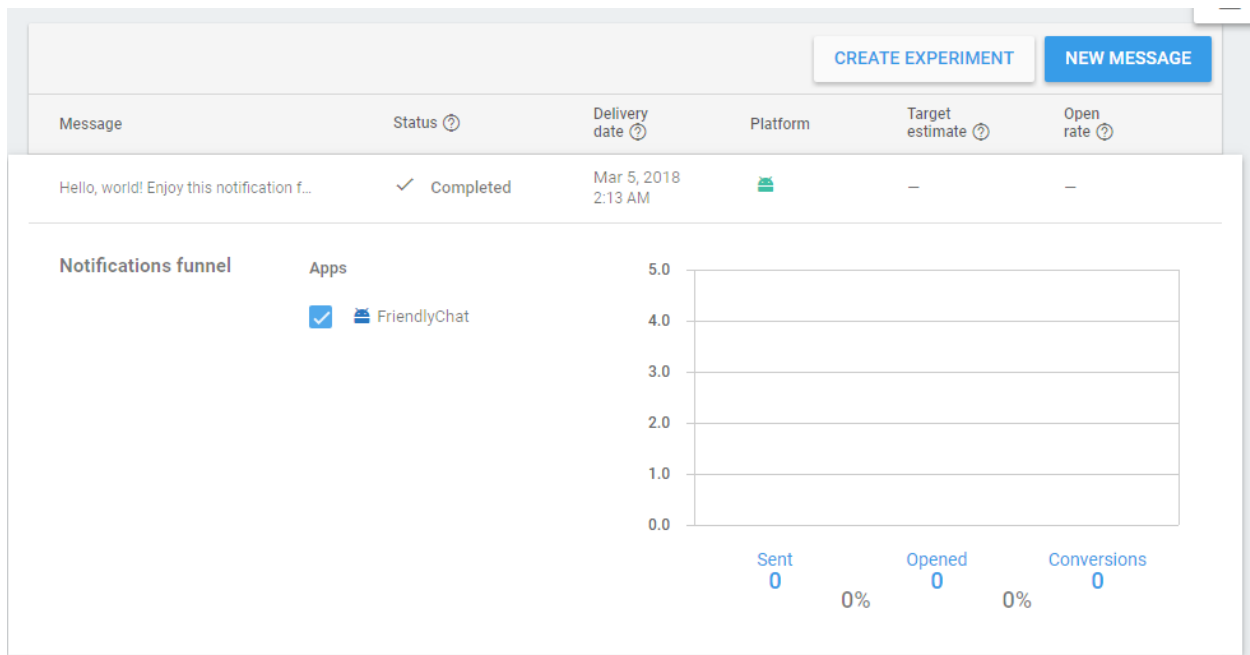


Figure 7

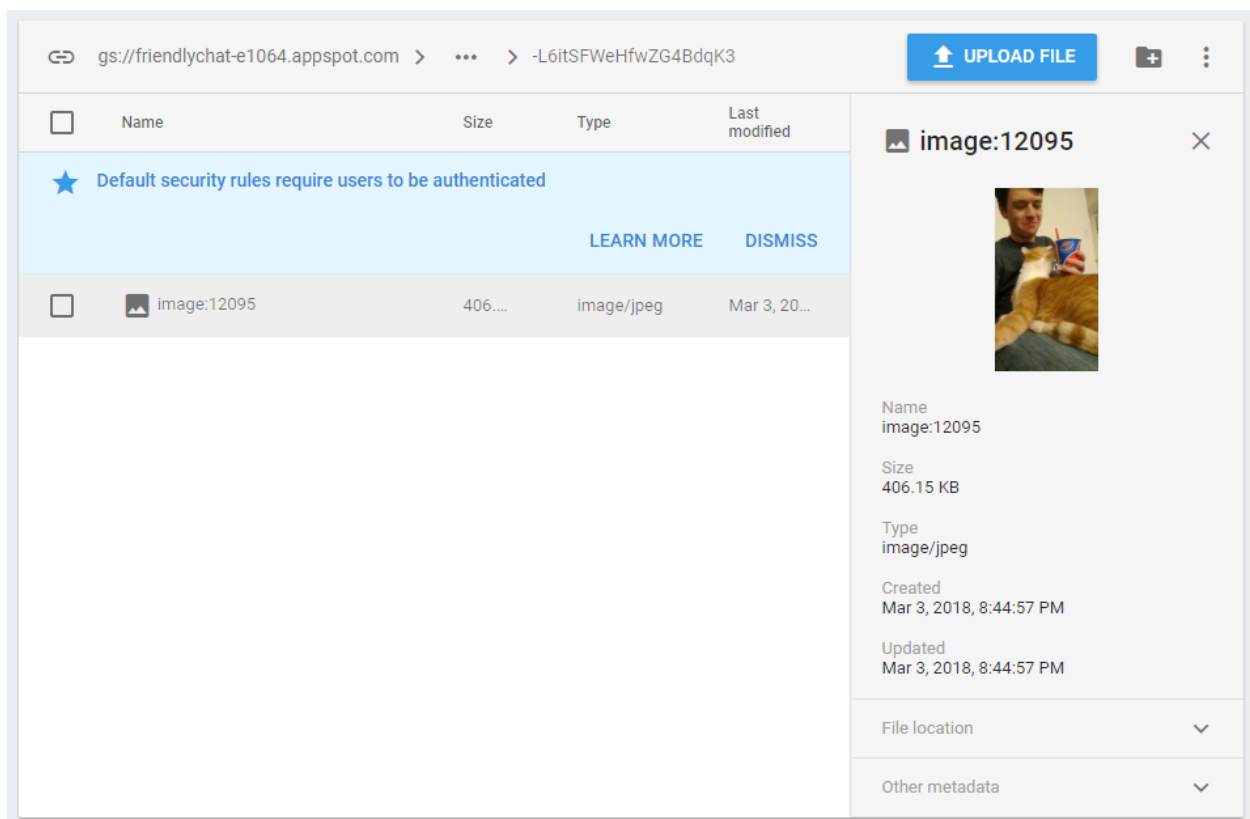


Figure 8