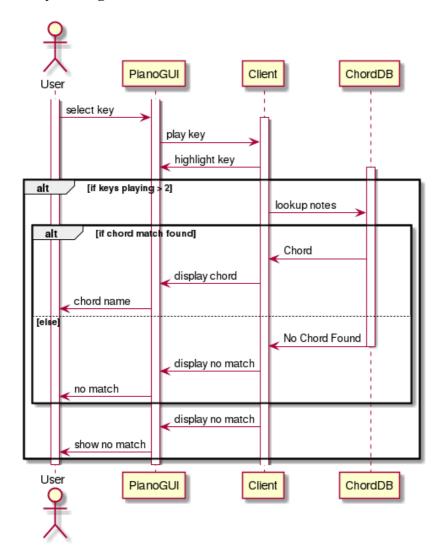
Sequence Diagram Documents

Find Chord

Analysis Diagram



Description

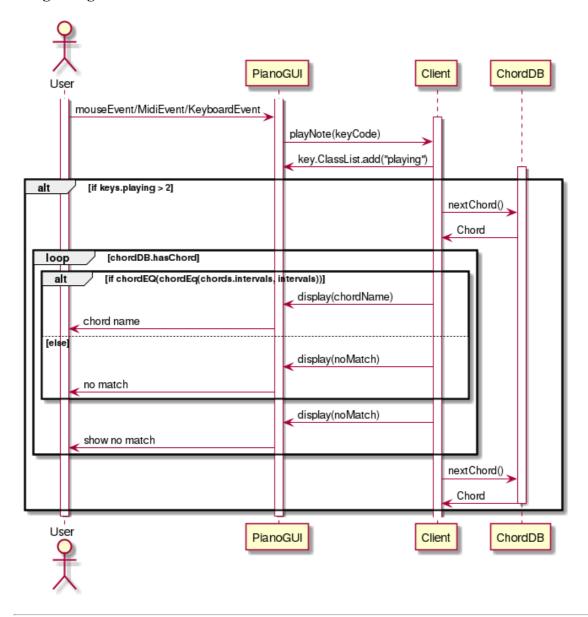
#	Subject	Subject Action	Parameters	Object acted upon
1	User	select	key	PianoGUI
2	PianoGUI	play	key	Client
2.1	Client	highlight	pianoKey	PianoGUI
3	If > 2 playing notes			
3.2	If Chord Match found			
3.2.2	Client	display	chord	PianoGUI
3.2.3	PianoGUI	show	chord	User
3.2	else			
3.2.1	Client	display	no match	PianoGUI
3.2.2	PianoGUI	show	no match	User

Subject Action Parameters Object acted upon

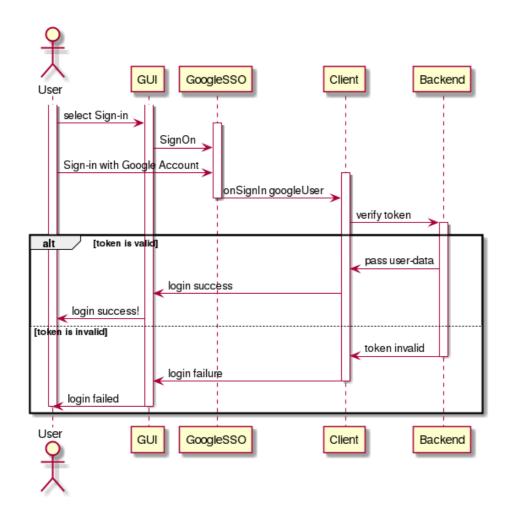
3 else

3.1 Client display no match PianoGUI3.2 PianoGUI show no match User

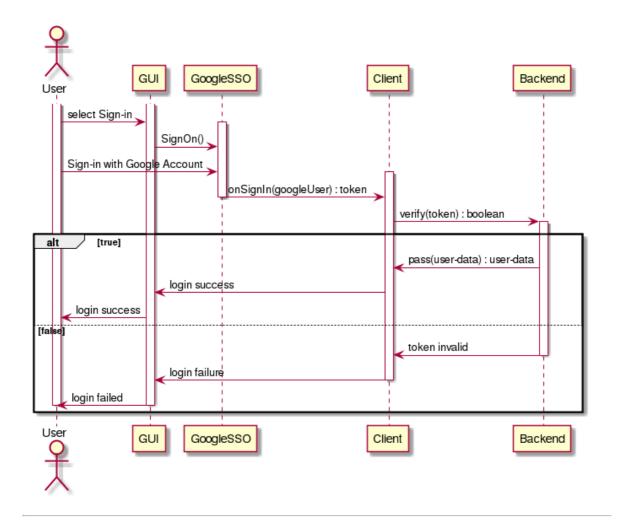
Design Diagram



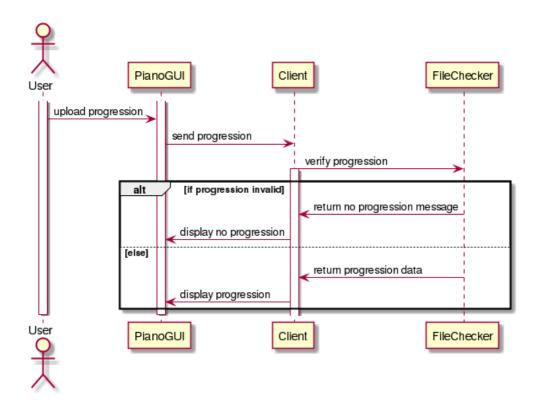
Sign in with Google



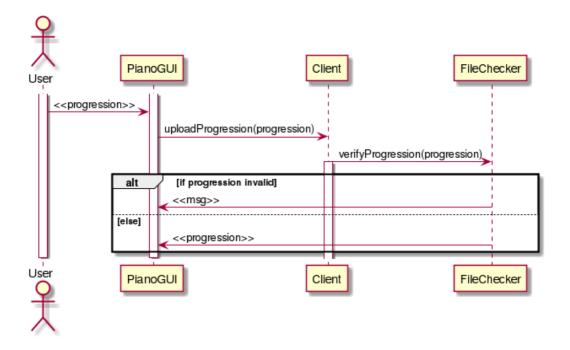
#	Subject	Subject Action	Parameters	Object acted upon
1	User	select	Sign-in	GUI
1.1	GUI	sign-in	Google	GoogleSSO
2.1	User	sign-in	Google account	GoogleSSO
4.	GoogleSSO	onSignOn	googleUser	Client
4.1	Client	verify	token	Backend
4.2	If token is valid			
4.2.1	Backend	pass	user-data	Client
4.2.2	Client	message	login success	GUI
4.2.3	GUI	message	logged in	User
4.2	else			
4.2.1	Backend	message	token invalid	Client
4.2.2	Client	message	login failure	GUI
4.2.3	GUI	message	login failed	User



Upload Progression

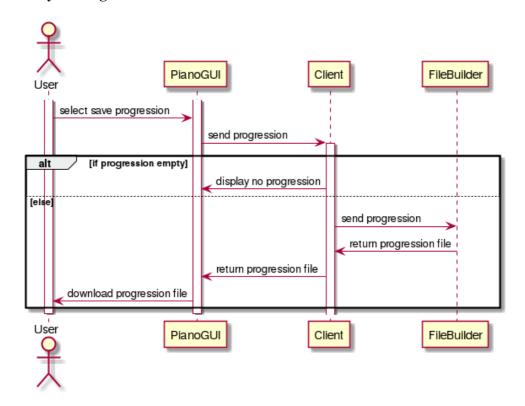


#	Subject	Subject Action	Parameters	Object acted upon
1	User	upload	Progression	GUI
2	GUI	send	Progression	Client
3	Client	send	Progression	FileChecker
4.1	If progression is valid			
4.1.1	FileChecker	returns	message	client
4.1.2	Client	displays	message	GUI
4.2	else			
4.2.1	FileChecker	returns	message	client
4.2.2	Client	displays	message	GUI



Download Progression

Analysis Diagram

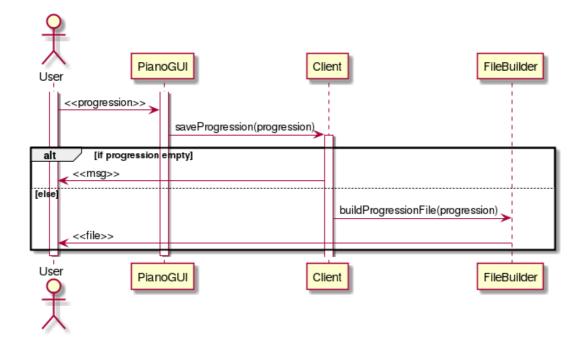


Description

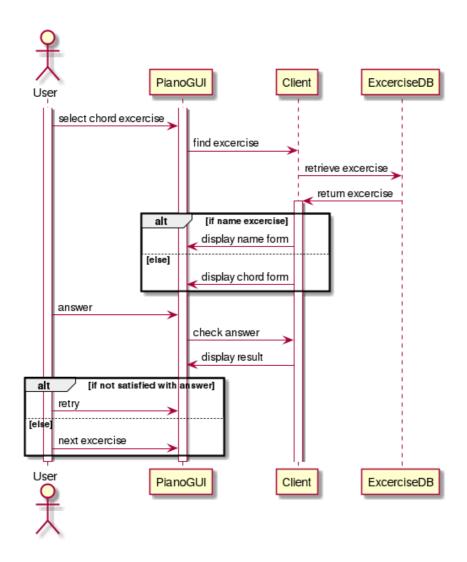
#	Subject	Subject Action	Parameters	Object acted upon
1	User	save	Progression	GUI
2	GUI	send	Progression	Client
3.1	If progression is valid			

#	Subject	Subject Action	Parameters	Object acted upon
3.1.1	Client	displays	message	GUI
3.2	else			
3.2.1	Client	sends	Progression	FileBuilder
3.2.2	FileBuilder	returns	file	Client
3.2.3	Client	returns	file	GUI
3.2.4	GUI	sends	file	User

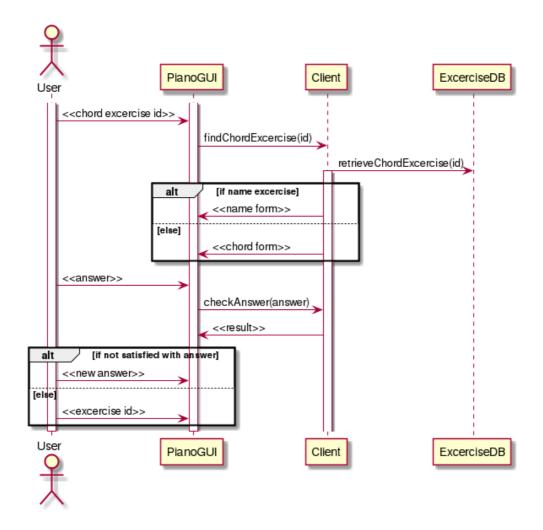
Design Diagram



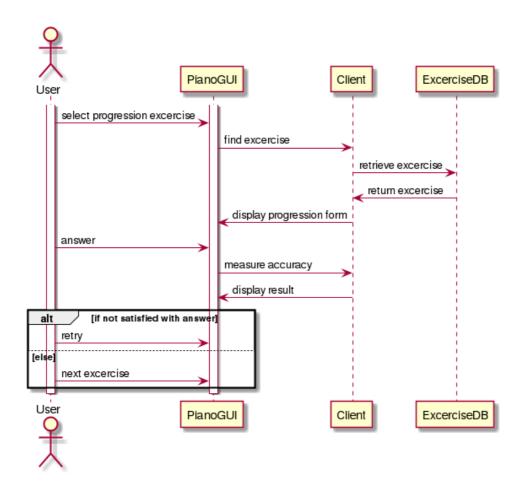
Chord Excercise



#	Subject	Subject Action	Parameters	Object acted upon
1	User	selects	chord excercise id	GUI
2	GUI	send	excercise	Client
3	Client	retrieves	excercise	ExcerciseDB
4	ExcerciseDB	returns	excercise	Client
5.1	If name chord excercise			
5.1.1	Client	displays	name form	GUI
5.2	else			
5.2.1	Client	displays	chord form	GUI
6	User	sends	answer	GUI
7	GUI	checks	answer	Client
8	Client	returns	result	GUI
9.1	If user not satisfied with answer			
9.1.1	Client	sends	answer	GUI
9.2	Else			
9.2.1	Client	sends	next excercise id	GUI



Progression Excercise



#	Subject	Subject Action	Parameters	Object acted upon
1	User	selects	progression excercise id	GUI
2	GUI	send	excercise	Client
3	Client	retrieves	excercise	ExcerciseDB
4	ExcerciseDB	returns	excercise	Client
5	Client	displays	progression form	GUI
6	User	sends	answer	GUI
7	GUI	measures accuracy	answer	Client
8	Client	returns	result	GUI
9.1	If user not satisfied with answer			
9.1.1	Client	sends	answer	GUI
9.2	Else			
9.2.1	Client	sends	next excercise id	GUI

