

Sequence Diagram Documents

Find Chord

Analysis Diagram

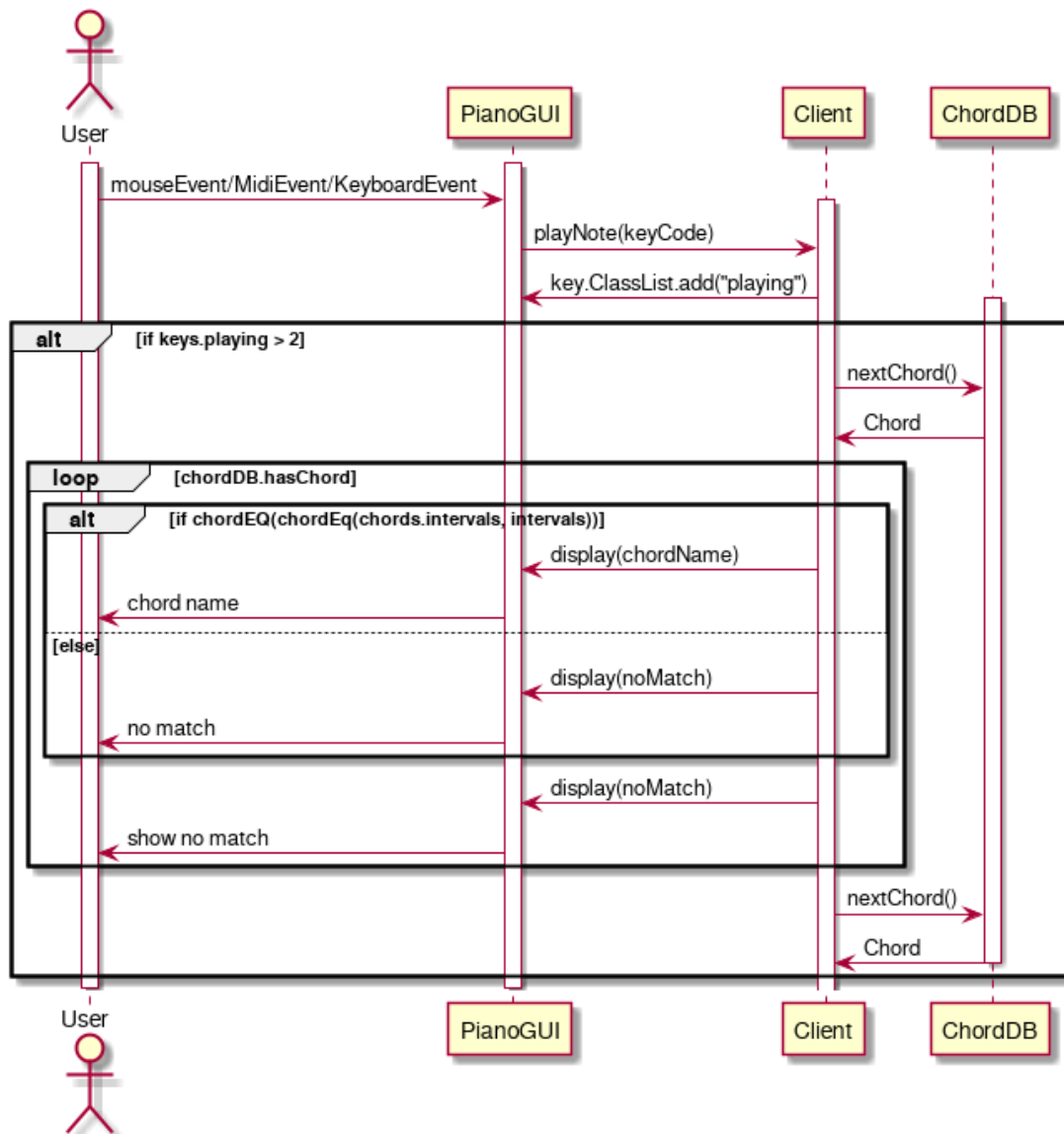


Description

| # | 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 | Subject Action | Parameters | Object acted upon |
|-----|----------|----------------|------------|-------------------|
| 3 | else | | | |
| 3.1 | Client | display | no match | PianoGUI |
| 3.2 | PianoGUI | show | no match | User |

Design Diagram



[Sign in with Google](#)

Analysis Diagram



Description

| # | 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 |

Design Diagram



Upload Progression

Analysis Diagram



Description

| # | 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 |

Design Diagram



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 Exercise

Analysis Diagram



Description

| # | Subject | Subject Action | Parameters | Object acted upon |
|-------|-----------------------------------|----------------|-------------------|-------------------|
| 1 | User | selects | chord exercise id | GUI |
| 2 | GUI | send | exercise | Client |
| 3 | Client | retrieves | exercise | ExerciseDB |
| 4 | ExerciseDB | returns | exercise | Client |
| 5.1 | If name chord exercise | | | |
| 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 exercise id | GUI |

Design Diagram



Progression Exercise

Analysis Diagram



Description

| # | Subject | Subject Action | Parameters | Object acted upon |
|-------|-----------------------------------|-------------------|-------------------------|-------------------|
| 1 | User | selects | progression exercise id | GUI |
| 2 | GUI | send | exercise | Client |
| 3 | Client | retrieves | exercise | ExerciseDB |
| 4 | ExerciseDB | returns | exercise | 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 exercise id | GUI |

Design Diagram

