Check List:

Overall:

☑ Play a staff with several notes in front of the camera and listen to the notes after image capturing and note identification
☑ Expand the music sheet to contain more than one staff and several sheets of music (if time permits)

Jing Han:

☑ Filter Module:
  - Image displayed in black and white
  - Adjustable cut off using buttons
  - Freeze image
☑ Image Orientation Module: Adjust the paper to match the square on the screen
☑ User Interface:
  - Underline the note played

If time Permits:
- User Interface
  - Multiple instrument selector
  - Volume controller
  - Spectrum display
  - Play/Pause buttons

Lance Collins:

☑ Player: Programming with music data and listen, compare with computer output
☑ Tone Selector:
☑ Tone Parameter:
☑ Theta Memory:
☑ Note Generator (piano, Violin, Cello, Flute): scales and aggregated tones into notes
☑ Note Aggregator: Chords, play instruments simultaneously
☑ Note Amplitude Calculator (Piano, Violin, Cello, Flute):
  - ADSR functionality
  - Harmonic Relative Frequencies

If time Permits:
- Add reverberant effect to sound
Dilini Warnakulasuriyarachchi:

- ✔ Pixel Filter: Image displayed on the screen and compared with the ZBT image
- ✔ Staff Finder: Display the identified staff lines on the screen
- ✔ Note Finder: Display the note on the hex display
- ✔ Beat Finder: Display 4,2,1 (whole note, half note, quarter note) on the hex display
- ✔ Minor FSM: Activate staff finder, note finder and beat finder with enable signals generated by using switches

If time permits:
- • Attempt to evaluate multiple staff lines at once
- • Identify chords and other musical effects such as ties, rest, crescendos etc.