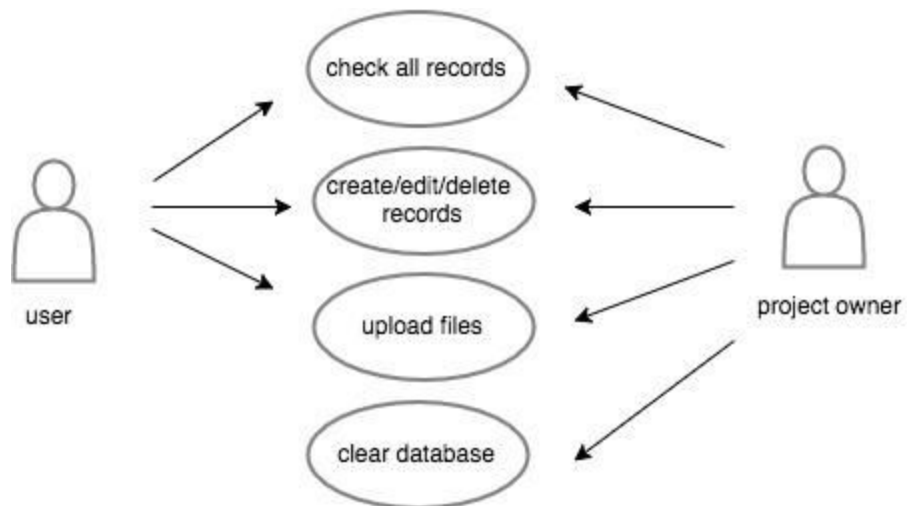
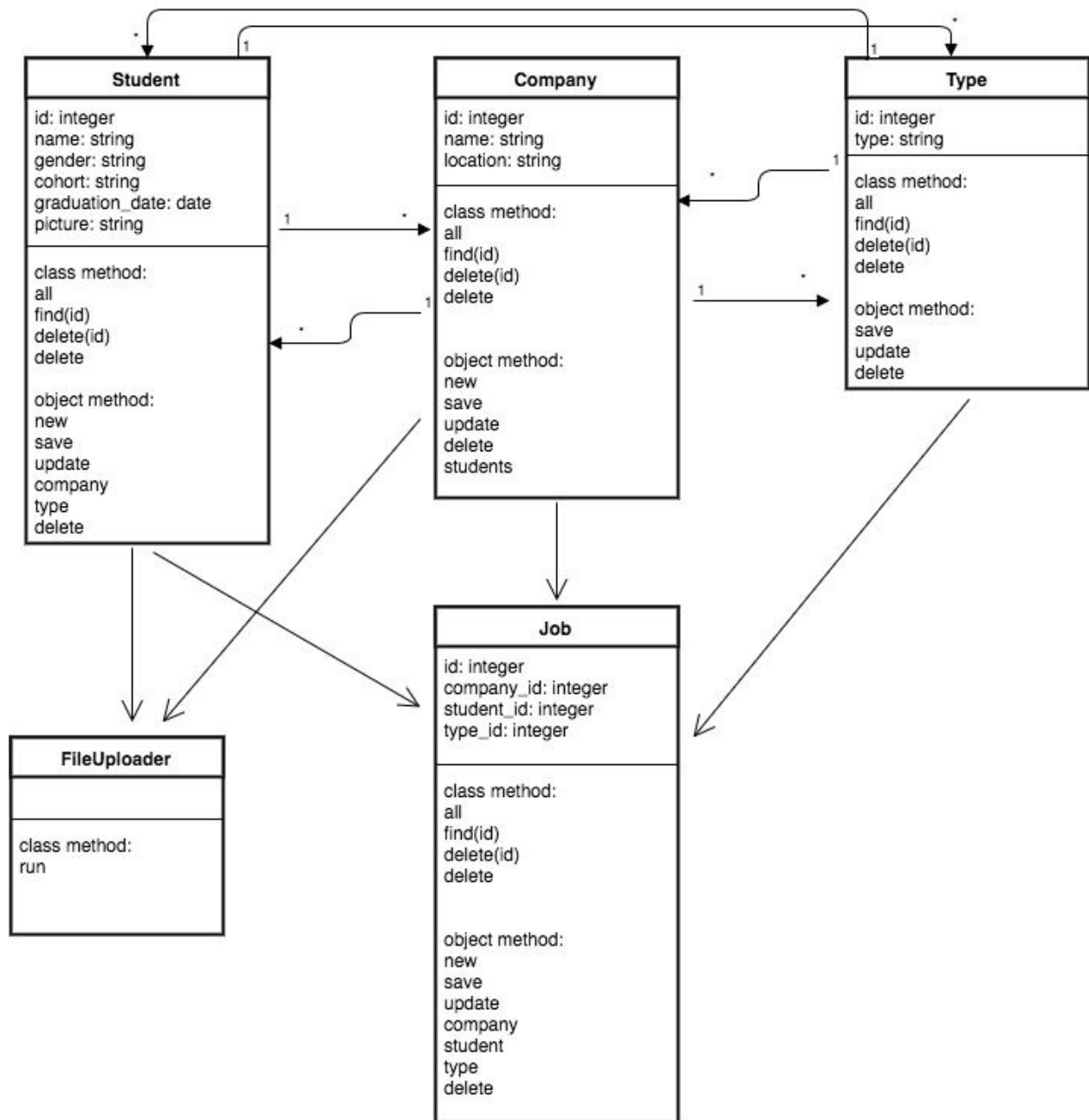


Analysis and Design Unit
SQA PDA: Software Development
Yan Ren

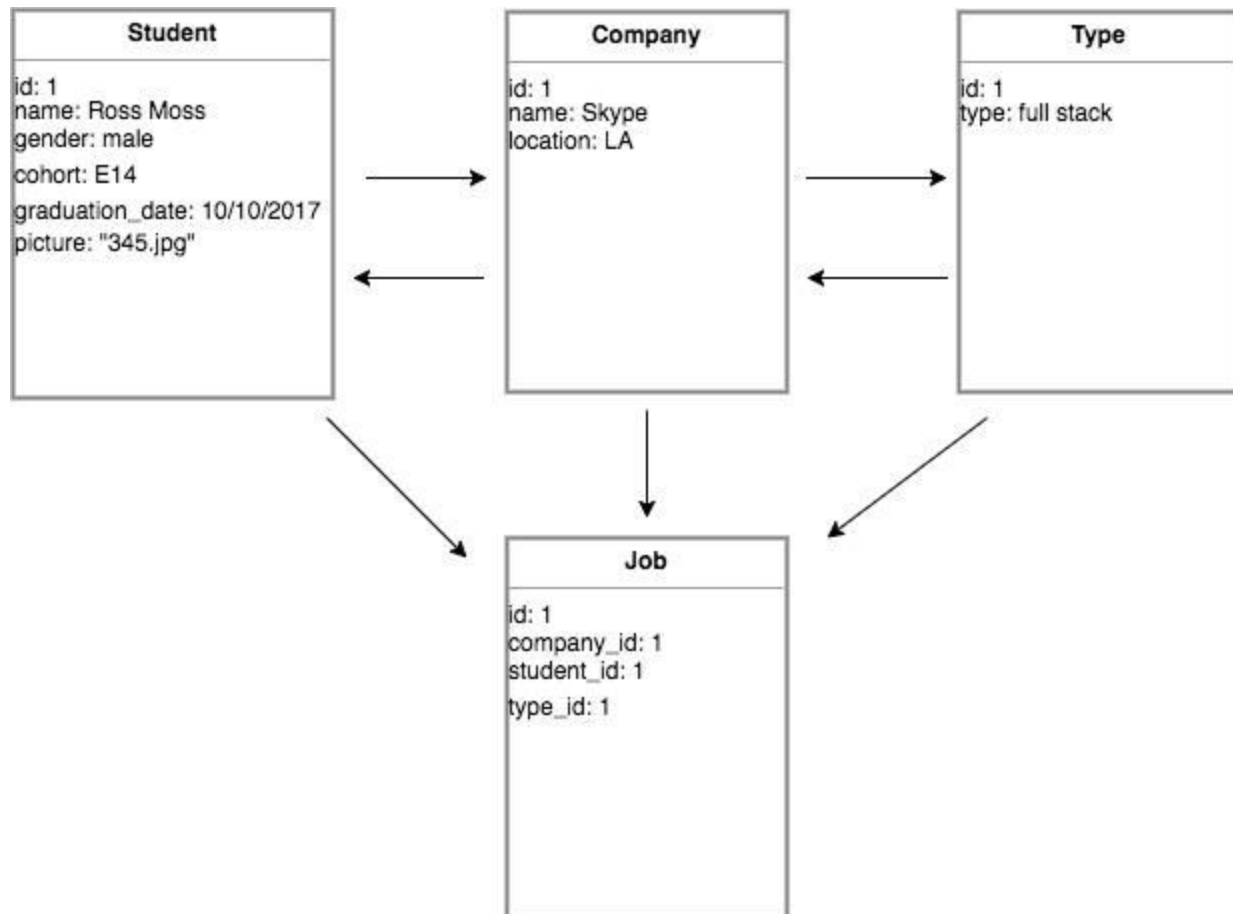
AD1 - Use Case Diagram



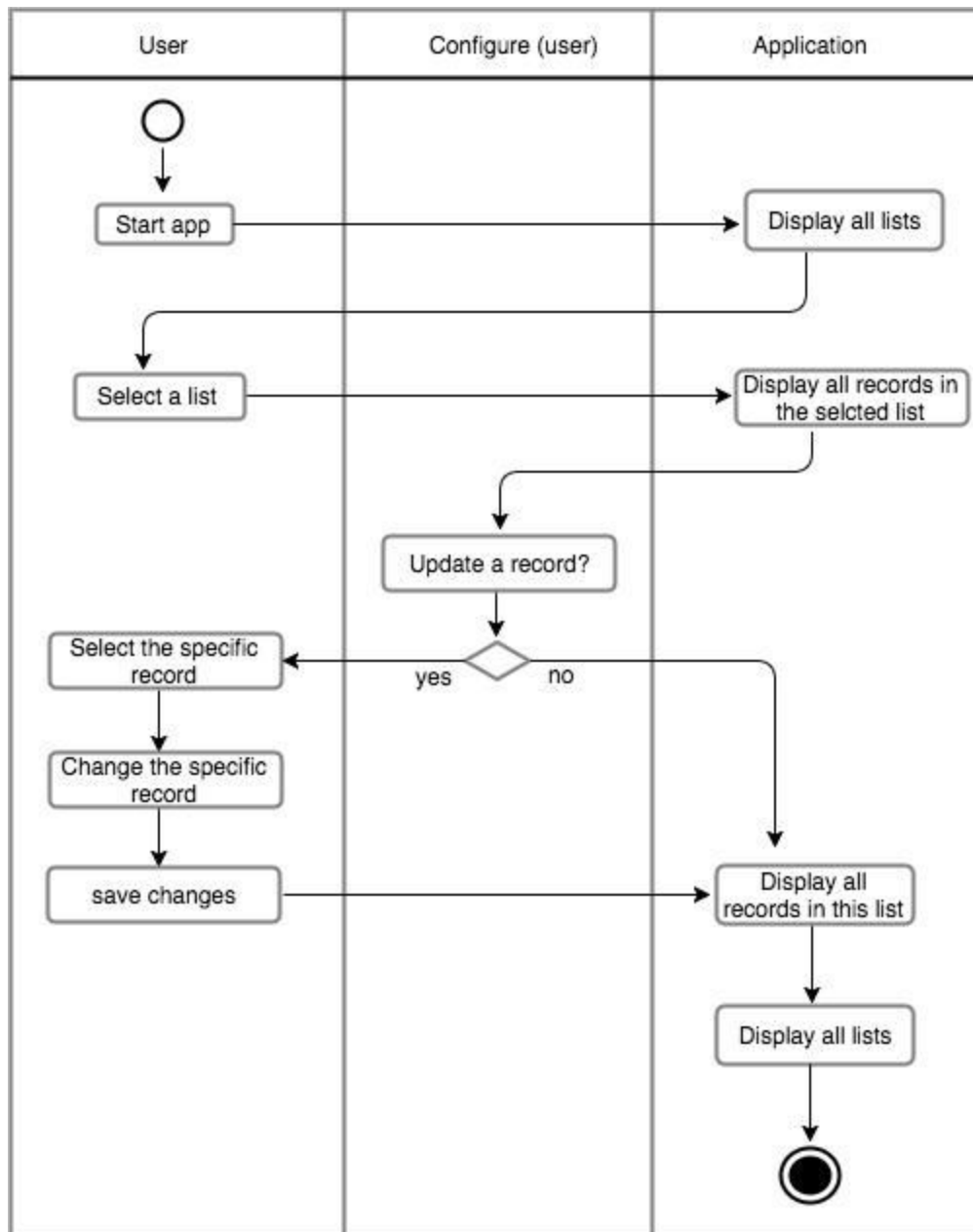
AD2 - Class Diagram



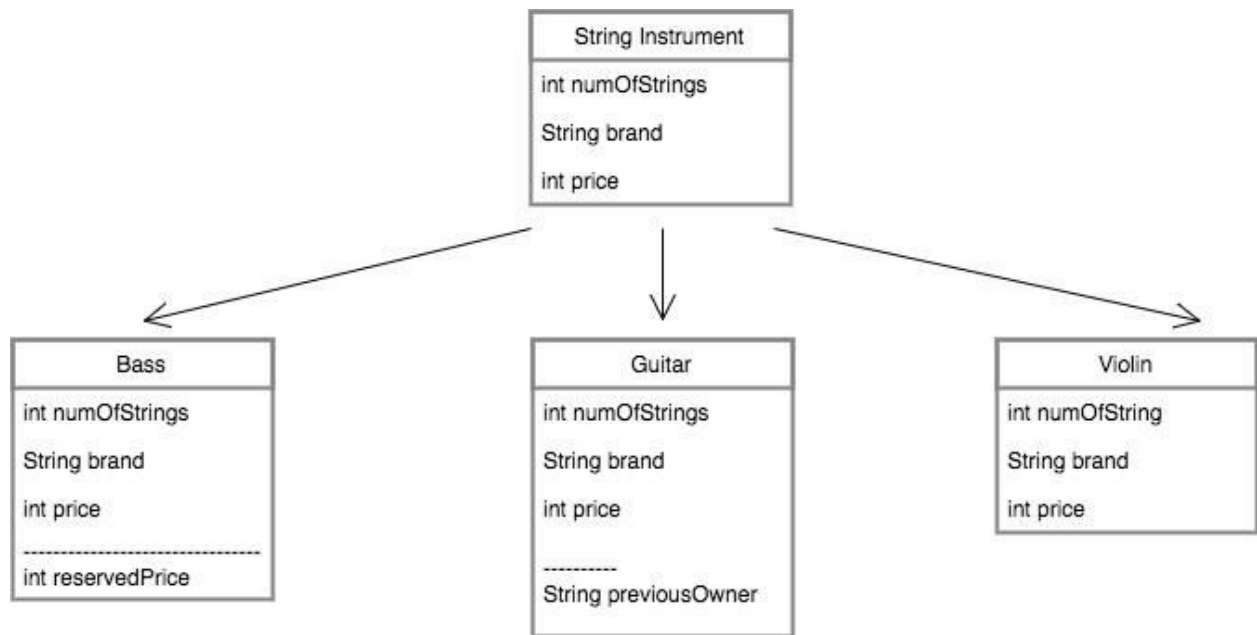
AD3 - Object Diagram



AD4 - Activity Diagram



AD5 - Inheritance diagram



AD6 - Implementation Constraints Plan

Topic	Possible Effect of Constraint on Product 1. Of the product 2. On the Product 3. Why is it a problem	Solution
Hardware & Software Platforms	1, 3D effect not available on all devices; 2, limited type of interactions (eg. android phone only)	2D as well as 3D effect available at the same time; Responsive design;
Performance Requirements	1, styles of the website slowing down users devices 2, slower server 3, not enough bandwidth	Use reader mode to simplify the page; Better server Faster internet Localise servers
Usability	1, Some colors are not recognisable for color blind users; 2, deaf users can not hear the audios.	Make color friendly for colorblind users and test with apps like no-coffee which is designed for this purpose; Make subtitles available where possible to help deaf people enjoy the audios
Budgets	1, constant changes in team structure consumes too much resources and limits the cost for other implementation 2, investors' fund not arrived on time	Steady the team building process; Make sure the team culture is healthy and encourage people to stay; Plan funding process before budget is set and have several investors leads lined up for fund;
Time limitations	1, limited time for finishing the MVP for presentation 2, key functionality cannot be finished and delivered on time	Using prototype software to map out the ideas; Keep the MVP's functions as bare minimum; Pull in more resources if possible; Keep communicating with clients and users ahead of the possible delay