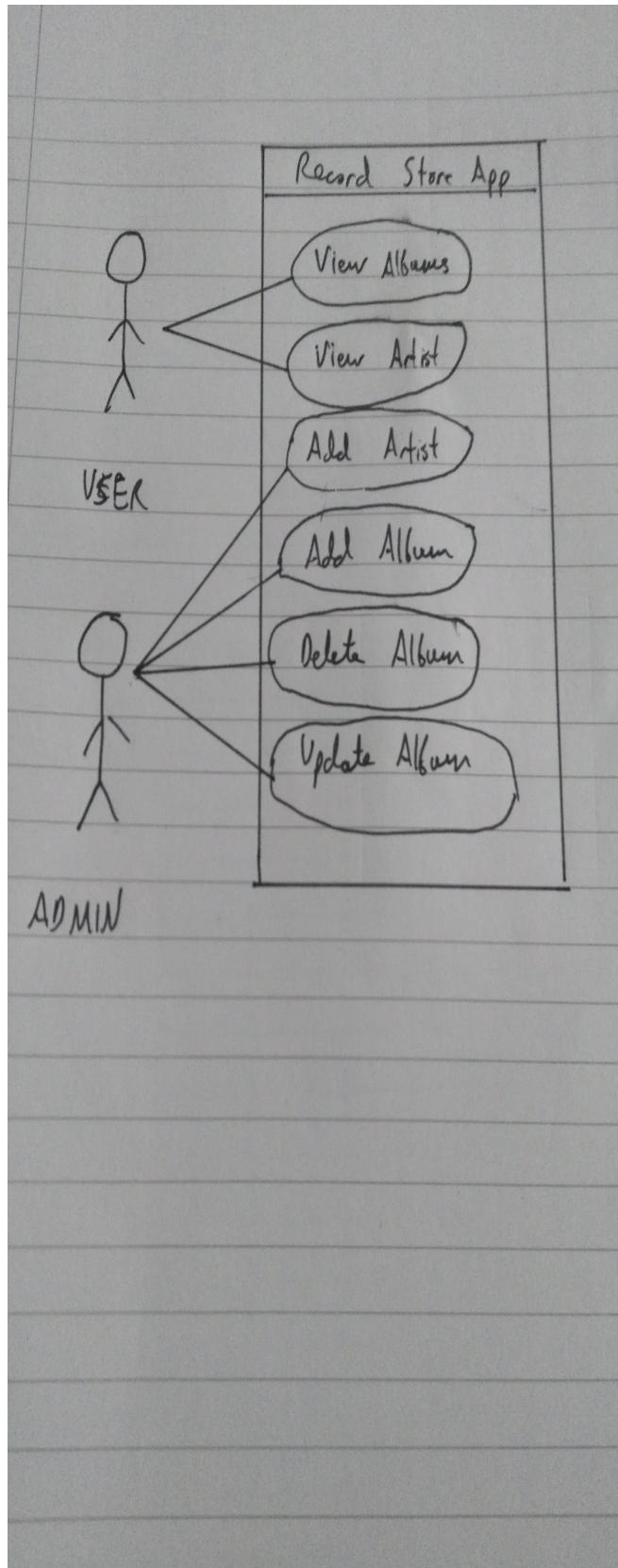


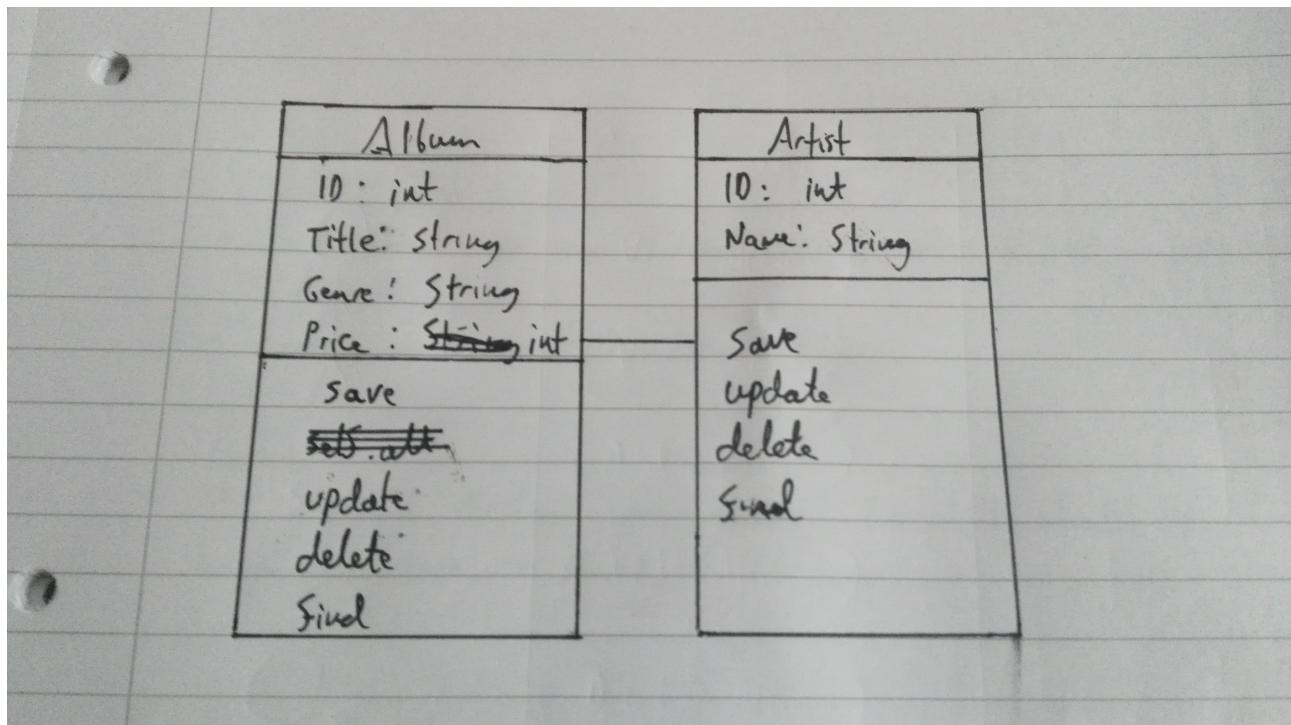
# Analysis & Design

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E19

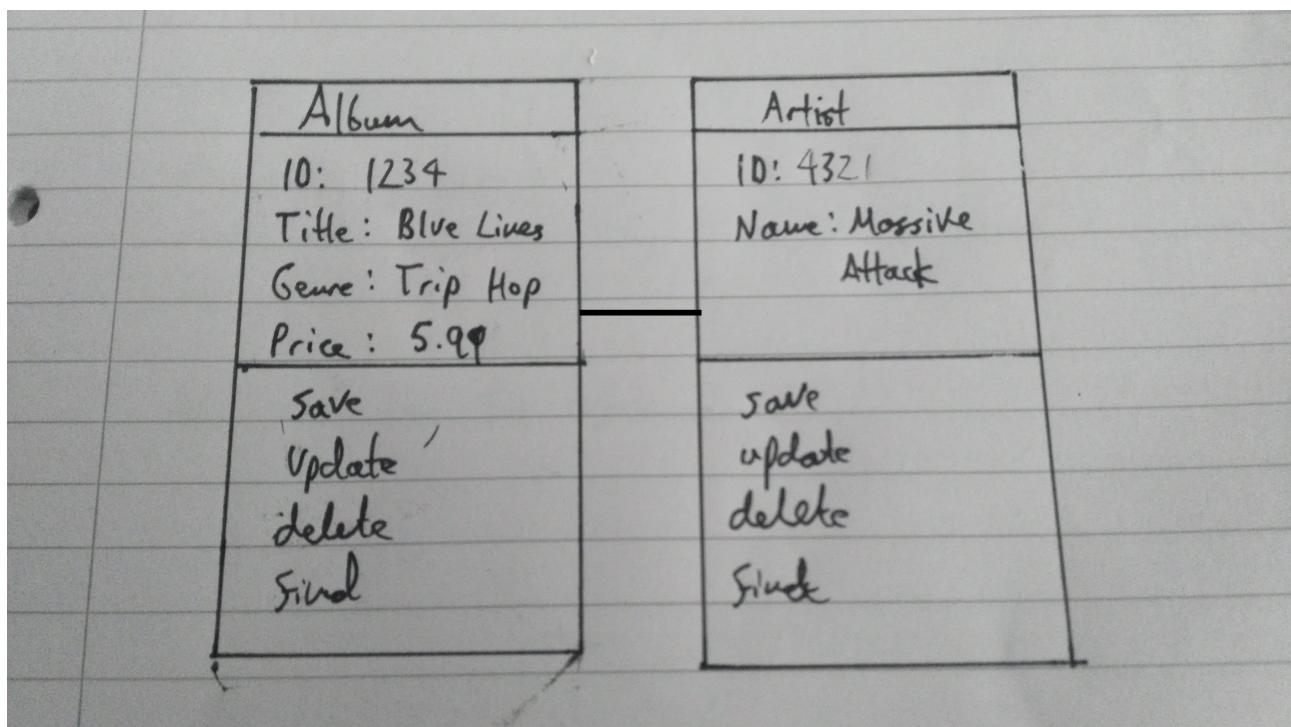
## A.D 1 A Use Case Diagram



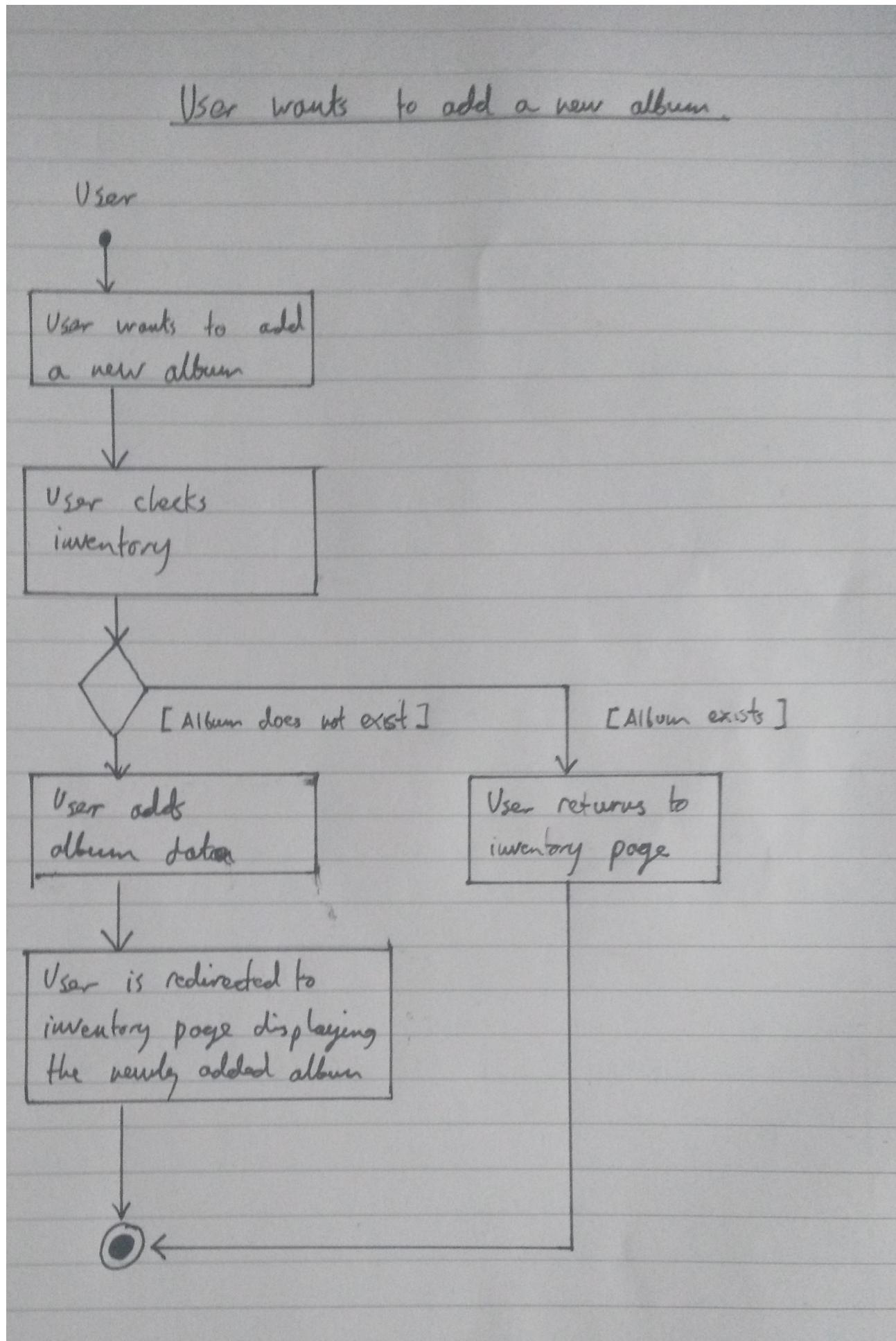
### A.D 2 A Class diagram



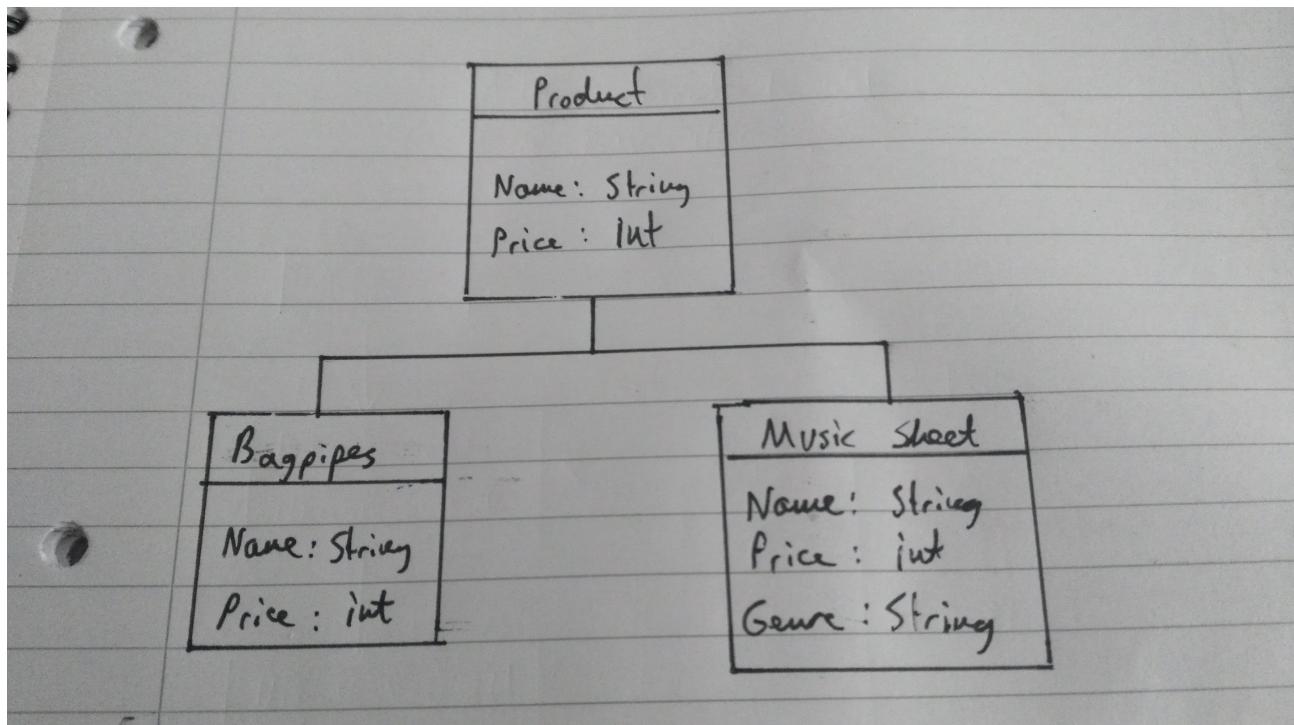
### A.D 3 An Object diagram



#### A.D 4 An Activity diagram



#### A.D 5 An Inheritance diagram



**A.D 6 Produce an Implementations Constraints plan detailing the following factors:**

Topic	Possible effect & constraint	Solution
Hardware & Software platforms	The application is currently only designed for desktop browsers, meaning a bad UX for mobile users.	Use mobile friendly CSS code to allow better mobile accessibility.
Performance requirements	If the server hosting doesn't have adequate bandwidth, this would lead to slow query response times.	Upgrade bandwidth or reduce the amount of data to a suitable level that can handle the bandwidth load.
Persistent storage and transactions	Storage restrictions on local drive would mean data storage would be limited.	Look at using cloud based storage as a solution.
Usability	The site currently doesn't have any features for visually impaired users, meaning that the app won't reach as full an audience.	Look at design of app. Use larger fonts and buttons.
Budgets	Limited budget might mean the development team could be stretched with targets.	Agree to a budget plan and reevaluate targets throughout development, so the the team doesn't get overstretched and remains focused on the MVP.
Time	Limited time constraints mean that full implementation of features may not be possible.	Ensure that basic MVP is agreed to, so all teams know what features are priority.