CPSC 2150 Lab 2 Report

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Requirements Analysis

Functional Requirements:

1. As a user, I need to access my order history so that I can see what I bought.
2. As a user, I need to change my credit card information so that I can pay with a different card.
3. As a user, I need to see shipping options so that I can choose how much I want to spend on shipping.
4. As a user, I want to see recommendations so that I can buy things similar to what I like.
5. As a user, I want to redeem gift cards so that I can use the balance I was given as a gift.
6. As a user, I want to choose my language so that I can understand what I am purchasing..
7. As a user, I need to choose a delivery address so that I can pick where my package is going.
8. As a user, I need to sort by price so that I can get the best deal.
9. As a user, I need to be able to talk to customer support so that I can resolve any transaction issues.
10. As a seller, I want to be able to create analytics so that I may see how to price my items competitively.
11. As a user, I want to be able to schedule regular deliveries so that I can get certain items on a set schedule.
12. As a user, I want to be able to rent movies so that I can spend quality time with my family.
13. As Jeff Bezos, I need to be able to see total monthly earnings so that I can know how much money I made.
14. As a seller, I want to be able to rate customers so that I can let other sellers know who pays quickly and is easy to communicate with.
15. As a user, I want to be able to rate sellers so that other users can know how reliable a seller is..
16. As a seller, I need to be able to receive instant messages so that I may address the concerns of my buyers.
17. As a back-end developer, I want to see website analytics so that I may see when the server has the most down time.
18. As a user, I want to have multiple profiles so that my entire family can each do their own shopping.
19. As a user, I want to make wishlists so that I can save items for a different time.
20. As a user I need to be able to buy now so that I can make purchases quickly.
21. As a user, I want to be able to share wishlists so that I can send them to family members so they can buy items for me.
22. As a shipper, I need to be able to access shipping information so that I may deliver packages.
23. As a user, I need to be able to provide product information so that buyers know more about my product.
24. As a user, I need to be able to search for items so that I can find items by name.

25. As a user, I need to be able to return orders so that I can get my money back for returned purchases.
26. As a user, I need to be able to see related items so that I can compare similar items and prices.
27. As a user, I need to be able to review products so that I can leave my opinion.
28. As a user, I need to be able to link my insurance so that I can pay less for medicine.
29. As a user, I need to be able to ask questions so that I can learn more about the product.
30. As a user, I need to be able to separate purchases into monthly payments so that I don't have to pay all at once.
31. As a warehouse manager, I need to access order details so that I know what to ship.
32. As a user , I need to be able to purchase items from other countries so that I can get items that are not in my country.
33. As a developer, I need to improve voice recognition so that there are less misunderstandings between alexa and user.
34. As a user, I need to be able to link my Twitch account so that I can receive Prime rewards.
35. As a user, I want to be able to change my password so that I can prevent people from logging into my account.
36. As a warehouse manager, I need to access order details so that I know what box size to ship.
37. As a user, I need to be able to link my account to my Firestick so that I can access my show.
38. As a buyer, I need to receive an email that my order was processed so that I can stay up to date with my order status.
39. As a seller, I receive notification of an order by email so that I can ship a person's order quickly.
40. As a user, I want to be able to track my pack so that I know how close it is to delivery.
41. As a user, I need to be able to purchase multiple items at once so that I do not have to place multiple orders.
42. As a postal worker, I need buyer information so that I can deliver to the correct address.
43. As a seller, I need to be able to sell multiple products at a time so that I can make more money.
44. As a user, I want to see product recommendations so that I may compare prices.
45. As a paper company, I need to access purchasing analytics so that I know how many boxes to produce.
46. As a user, I need to be able to livestream so that I can advertise my product.
47. As a shareholder, I need to see revenue reports so that I may vote on ownership rights.
48. As a front end developer, I need to create a search bar so that users can find specific items.
49. As a front end developer, I need to maintain the amazon specific color scheme so that customers associate it with the platform.
50. As a front end developer, I need to implement a scroll bar so that users may scroll down the page.
51. As a user, I need to be able to sell products at a discounted price for a limited time so that the deals do not last for too long.
52. As a user, I need the site to have categories for items so that I can search specific sections and types of items.
53. As a user, I need to be able to buy items on Amazon through my Alexa so that it is easier for me to shop.

54. As a user, I need the site to be able to show items that are trending so that I can see what is popular right now.
55. As a user, I need to be able to contact customer support to receive help with my items or purchases.
56. As a user, I need to be able to request custom shipping information in case I need to have my items delivered in a certain way.
57. As a user, I need to be able to register my business with Amazon to be able to sell products under my business name.
58. As a user, I need to be able to access troubleshooting information to help with any of my Amazon devices.
59. As a user, I need to be able to manage my gift cards to check their balances.
60. As a user, I need to be able to customize my Amazon Music settings to change what kind of music I listen to.
61. As a user, I need to be able to set purchase reminders in order to remember when to rebuy specific items.
62. As a user, I need to be able to delete my Amazon account to be able to close it if I ever need to.
63. As a user, I need to be able to manage all of my Amazon apps to be able to keep track of them all.
64. As a user, I need to be able to manage my advertising preferences to choose what kind of ads that I receive.
65. As a user, I need to be able to modify my order history if I ever wanted to delete something I previously bought.

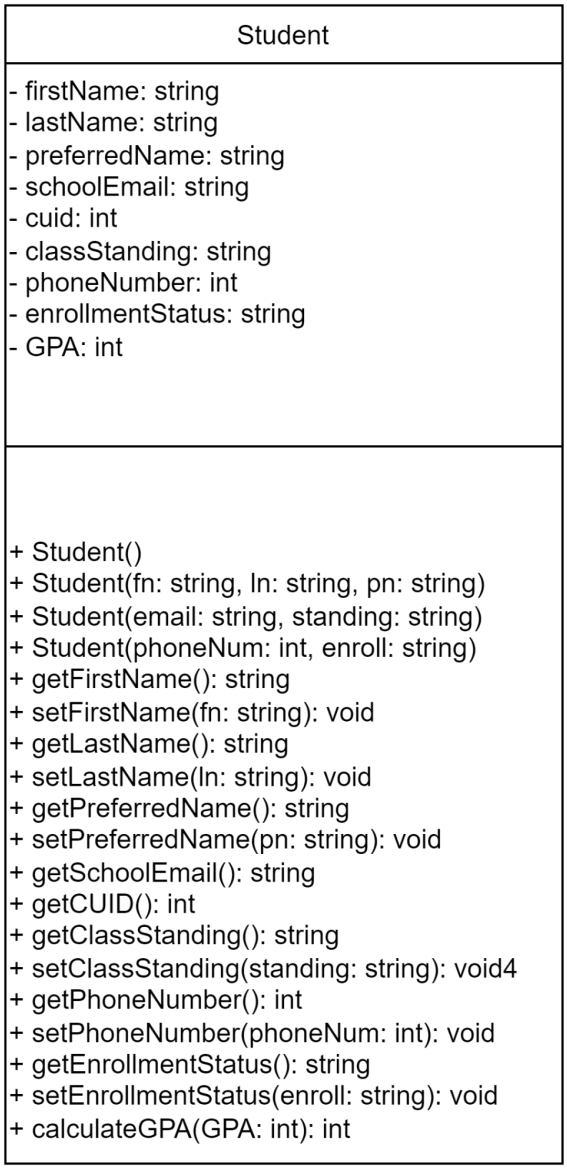
Non-Functional Requirements

1. Must be compatible with mobile.
2. Must be coded in Java.
3. Must be able to support at least 100,000 transactions per day.
4. Must have support for MacOS and Windows.
5. Must have a 99.95% uptime.
6. Must be able to withstand hacks/attacks.
7. Must encrypt all user data.
8. Must be compatible with Android.
9. Must open a webpage in less than one second.
10. Must be able to scale with website and order number growth.

System Design

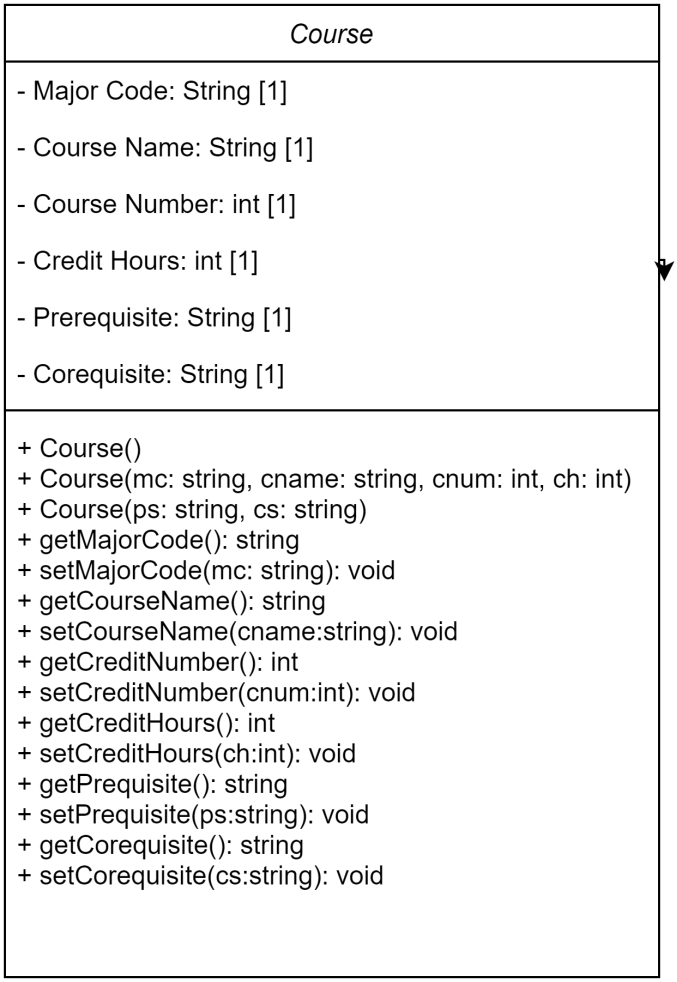
Student:

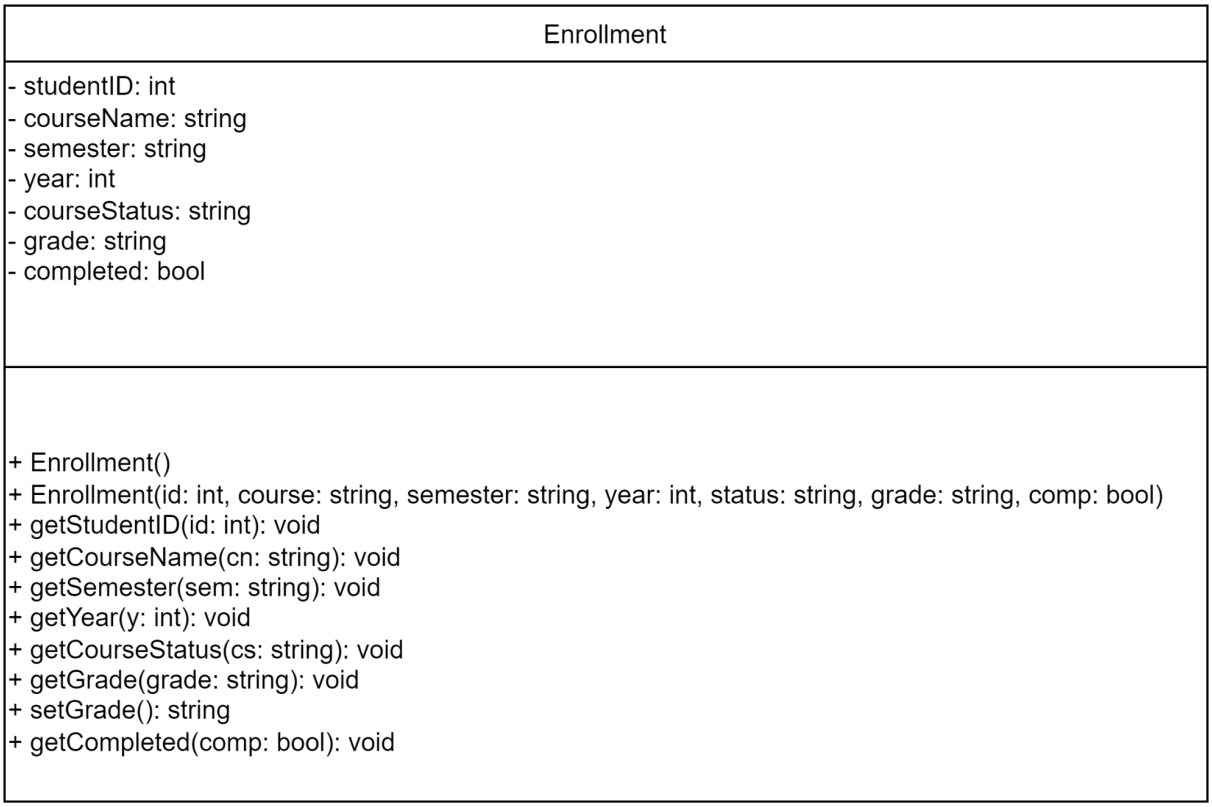
Class diagram:



Course:

Class diagram:



Enrollment:

Class diagram: