

IDS401 Project Documentation

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Seat number: 15
Application: Coupon Inventory System (Default)

To run the project:

1. Open both files: **IDS401Proj.java** and **Coupon.java**
2. Read the comments in the beginning of the **IDS401Proj.java** file
3. Click [Run](#)
4. Select an option in the initial menu - either read from file (must paste in the file path) or manual input (1 by 1)
5. Access options in the main menu.

Classes included in this project and their methods:

1. **IDS401Proj class:**
 - a. **main** – responsible for running the project, includes both the initial and main menu of the application.
 - b. **readCoupons** – responsible for reading the file to the ArrayList of Coupon objects
 - c. **addCoupons** – allows the user to append the ArrayList with a manually input coupon
 - d. **searchCoupons** – allows the user to search for a coupon by its fields:
 1. Product name
 2. Price
 3. Provider
 4. Discount Rate
 5. Expiration
 6. Status
 7. Final Price
 - e. **sortAndDisplay** – allows the user to view the coupons SORTED by either:
 1. Product name
 2. Price
 3. Provider
 4. Discount Rate
 5. Expiration
 6. Status
 7. Final Price
2. **Coupon class:**
 - a. **getProduct** – returns the product's name
 - b. **getPrice** – returns the product's initial price
 - c. **getProvider** – returns the coupon's provider
 - d. **getDiscountRate** – returns the discount rate, e.g. 20, 30...
 - e. **getExpiration** – returns the expiration in # of days
 - f. **getStatus** – returns the status (Unused/Redeemed)
 - g. **getFinalPrice** – returns the final price after the discount rate
 - h. **@Override toString** – overrides the default object printing method