**AMA-ZING HACK CHENNAI**

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**Modules**

**1. Initializer:**

- Sets up the master data by picking up the oldest CSV file from the data repository.

**2. Listener:** (Uses **Observer Design Pattern**)

- Sleeps for a short time interval

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- Calls a script filePicker.sh to get a list of new or modified CSV files since the last update.

- Calls the Updater procedure to update the master data with new information.

**3. Updater:**

- Receives the updated CSV file list from Listener

- Checks the notification table and if any subscriber is to be notifier,

calls upon **SubscriberNotifier**.

- Updates the master data with the updated data from the modified CSV files

**4. QueryResponder:** *<Currently receives query requests from file. A separate program* ***Requester*** *fills the file with queries>*

- Reads query requests from file and provides the latest information.

**5. SubscriberNotifier:**

- Pushes out an email to the interested subscribers when a book property has changed satisfying the subscriber's condition.

**Areas of improvement:**

- Mechanism to make the data persistent in order to handle unexpected crashes

- Reduce dependence on temporary files and read from memory