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# Upgrad-dbassignment

## Code Flow/Logic

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## Steps/Logic flow

1. Establish rdms connection in AWS (use AWS rdbms url, credentials)
  2. Establish mongodb connection with mongodb server running in ec2. (use AWS mongodb url)
  3. Get mongodb database “electronicsstore” and “products” collection .
  4. **Delete all existing documents in “products” collection to avoid repeated inserts of same data.**
  5. Populate mobiles/headphones/cameras records from RDBMS into a local list.
  6. Use “insertMany” to insert this products list into mongodb “products” collection.
  7. CRUDHelper.DisplayAllProducts : find all items in “products” collection -> for each item call -> PrintHelper.printSingleCommonAttributes
  8. CRUDHelper.displayTop5Mobiles : find all items with category “Mobiles” with document limit to 5.  
for each mobile -> call PrintHelper.printAllAttributes
  9. CRUDHelper.displayCategoryOrderedProductsDescending : use projection to “excludeld” and sort filter of “Category descending” to find all items in descending order of category with \_id field excluded.  
for each item - > call PrintHelper.printAllAttributes
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10. `CRUDHelper.displayProductCountByCategory` : use aggregates function to categorize product count in each category.

use sort filter to order the grouping by "Category descending".

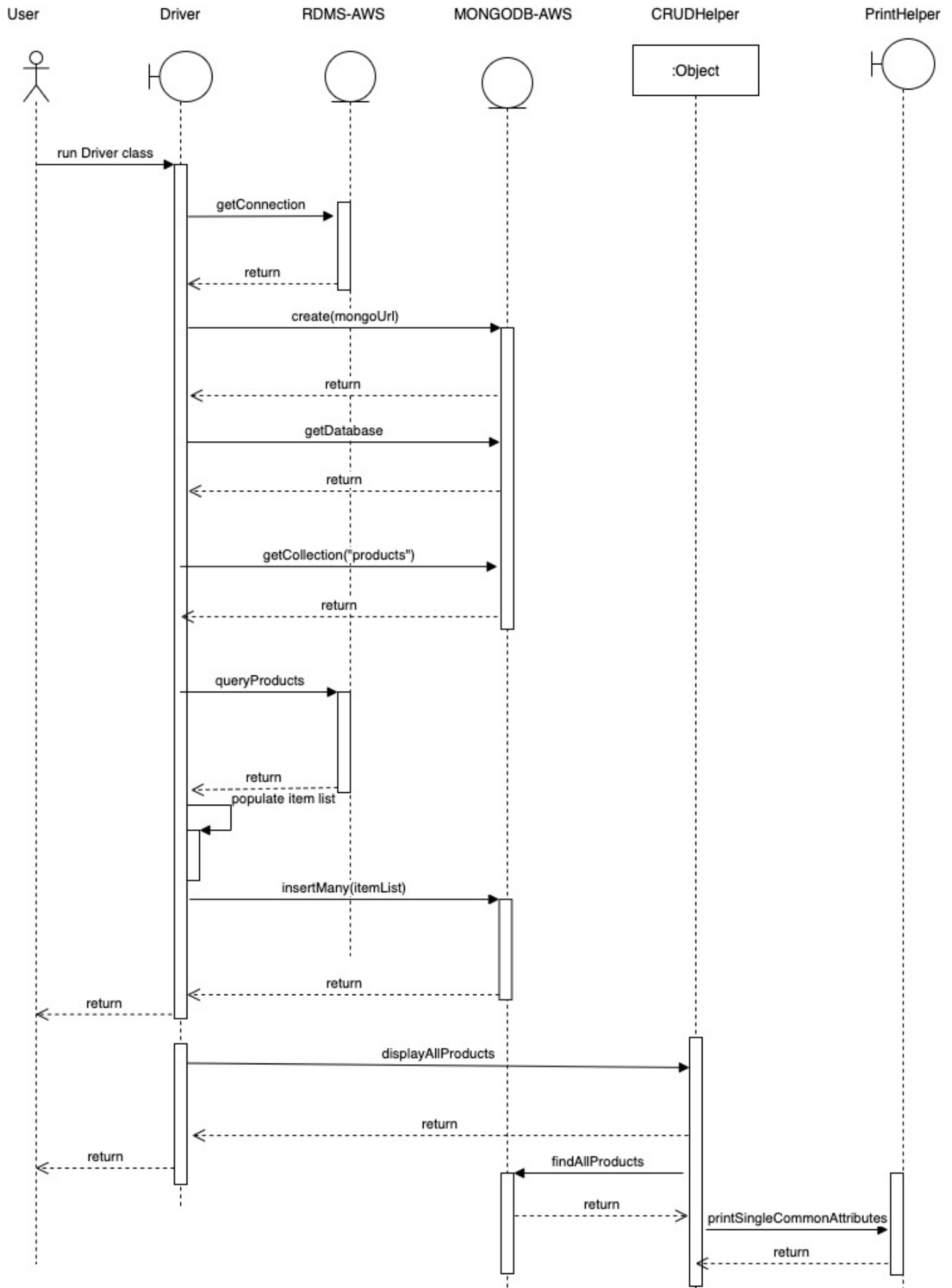
Display each group doc - > call `PrintHelper.printProductCountInCategory`

11. `CRUDHelper.displayWiredHeadphones` : use "Category equals Headphones" and "ConnectorType equals Wired" filter to find all wired headphones.

call `PrintHelper.printAllAttributes` to print all wired headphones.

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## Sequence diagram for Driver run/display all products with common attributes



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