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**Trainer: Mr. Ashish Gavshinde Date:   
  
 Assignment – 5**

**KNOCKOUT JS**

1. What is Knockout JS?
2. What is difference between KO and JQuery?
3. Why use data-binding?
4. Create a clock on HelloWorld page using KO.
5. Create a KO module to increate/decrement qty on product detail page qty box.

**RESTAPI & GraphQL**

1. Magento Rest Api and Custom API creation
2. What is RESTAPI?
3. What is GraphQL?
4. Difference between RESTAPI and Graphql?
5. Create a custom REST API Blog post module.
6. Create a graphql query/mutation for blog post module.  
    **CRONJOBS**
7. Install cron job on Magento directory.
8. Create a cronjob that can log any message into the system.log file. Like “ Customcron job is running.”
9. Create a custom database table customer\_order\_relation. Add columns: id(‘int’), customer\_id(int), order\_placed (boolean), total\_order\_placed(int), total\_spent(float).  
   After creating its model, resource model, and collection create a custom cronjob that can fetch the order and customer data and add values to the new table.   
   Each customer id has its own row. If it does not exist then add else update the existing one.   
   Id will be auto increment,   
   customer\_id will be customer id,   
   order\_placed will contain 0 or 1 means if a customer has placed an order then 1 otherwise 0,  
   Total\_order\_placed will contain the number of orders placed by the customer. (if no order is placed then 0 )  
   Total\_spent will contain the number of orders that the customer has placed yet (Do not include canceled orders)  
   Create a table grid to show this data. Menu inside Sale => Order Data Customer wise (sub-menu)