

## LocalDate

fields:-

```
private int month
private int day
private int year
private static final int DEFAULT_YEAR
private static final int DEFAULT_MONTH
private static final int DEFAULT_DAY
```

Method:-

```
public LocalDate() - constructor
public LocalDate(int mm, int dd, int yyyy) - constructor

public int getMonth()
public int getDay()
public int getYear()

public void setDate(int mm, int dd, int yyyy)

private void setDay(int dd)
private void setMonth(int mm)
private void setYear(int yyyy)
private boolean isLeapYear(int yyyy)

public String toString()
public boolean equals(LocalDate d)
```

## SupplyOrder

fields:-

```
static int nextOrderID
int orderID
String customerID
String productID
LocalDate orderDate
double amount
```

Methods:-

```
public SupplyOrder() - constructor
public SupplyOrder(String customerID, String productID, LocalDate date, double amount) - constructor
public SupplyOrder(SupplyOrder) - copy constructor

public int getOrderID() - returns orderID
public String getCustomerID() - returns customerID
public String getProductID() - returns productID
public LocalDate getOrderDate() - returns orderDate
public double getAmount() - returns amount

public void setOrderID(int orderID) - sets orderID after validating
public void setCustomerID(String customerID) - sets customerID after validating
public void setProductID(String productID) - sets productID after validating
public void setOrderDate(LocalDate orderDate) - sets orderDate after validating
public void setAmount(double amount) - sets amount after validating

public String toString()
public boolean repeats()
public LocalDate getEndDate()
```

## RepeatedOrder

fields:-

```
private int period
private LocalDate endDate
```

Methods:-

```
public RepeatedOrder() - constructor
public RepeatedOrder(String newCustomerID, String newProductID, LocalDate newDate, double newAmount, int period, LocalDate endDate) - constructor
public RepeatedOrder(RepeatedOrder newRepeatedOrder) - copy constructor
public int getPeriod()
public LocalDate getEndDate()

public void setPeriod(int period)
public void setEndDate(LocalDate endDate)

private boolean compareTo(LocalDate date1, LocalDate date2)

public boolean repeats()
public String toString()
```

## UserInterface

fields:-

```
private static OrderManager orderManager
private static boolean compareTo(LocalDate date1, LocalDate date2)
```

methods:-

```
public static void main(String[] args)
public static void fileLoading()
public static void addOrder()
public static void deleteOrder()
public static void sortByCustomerID()
public static void inventoryReport()
```

## FileGenerator

fields:-

```
private static char[] alphabet
private static final String generator
private static final Random rand
private static final Set<String> storage
```

Methods:-

```
public static String randomNameGenerator()
public static void main(String[] args)
public static void createNewFile()
```

## OrderManager

fields:-

```
private static int orderID
private List<SupplyOrder> listedOrder
private List<Integer> ID
private int id
```

Methods:-

```
public OrderManager() - constructor
public void addOrder(String customerID, String productID, LocalDate date, double amount) - for one time order
public void addOrder(String customerID, String productID, LocalDate date, double amount, int period, LocalDate endDate) - for repeated order
public boolean removeOrder(int orderID) - return true if removed successfully
public void listAllOrders(int year, int month)
public void listAllOrders(LocalDate startDate, LocalDate endDate)
public void listAllOrders(String productID)
public void displayInventory()

public String toString()
public int getID(SupplyOrder)
public int getIDCounter()
public List<SupplyOrder> getListedOrder()
public List<Integer> getIDList()
```