

- The MVC design pattern is used in AIMS project. This means that the project is organized into layers, or controllers, that handle different parts of the work:

- classes .This will make it easier to keep your code organized and minimize the number of dependencies between the classes.
- The communication between the modules is done through base classes (BaseController and BaseScreenHandler). This makes it easier for the modules to communicate with each other because they don't have to call each other directly.

Preventing high because there is less connection among classes.

So, this is data coupling.

2. Cohesion

Some problem about cohesions:

- ScreenHandler is responsible for handling requests from the user interface and sending method calls to the controller for processing. However, ScreenHandler is acting as the controller.
- ShippingScreenHandler helps you create an Order, while the PlaceOrderController should be responsible for setting up the Order.

```
ShippingScreenHandler.java
108    rushOrderScreenHandler.setScreenTitle("Kush Order");
109    rushOrderScreenHandler.setBaseController(rushController);
110    rushOrderScreenHandler.show();
111    } else {
112        // calculate shipping fees
113        int shippingFees = getBaseController().calculateShippingFee(order);
114        order.setShippingFees(shippingFees);
115
116        // create invoice screen
117        Invoice invoice = getBaseController().createInvoice(order);
118        BaseScreenHandler invoiceScreenHandler = new InvoiceScreenHandler(this.stage, Configs.I
119        invoiceScreenHandler.setPreviousScreen(this);
120        invoiceScreenHandler.setHomeScreenHandler(homeScreenHandler);
121        invoiceScreenHandler.setScreenTitle("Invoice Screen");
122        invoiceScreenHandler.setBaseController(getBaseController());
123        invoiceScreenHandler.show();
```

- PlaceOrderController:
 - There is a createInvoice() method but it is not related to any other methods in the class.
 - The PlaceOrder() method is not fully allocated tasks. Tasks are responsible for ScreenHandler.
- PaymentController: The getExpirationDate(String), emptyCart() method has no data or logic binding.
- InterbankSubsystem: The methods refund() and payOrder() have the same input parameters and return type. They can be used to refund or pay for an order separately.
- PlaceRushOrderController: The getRushTableMedia method is unrelated to other functions, which can be separated into util methods.

So, cohesion is not high