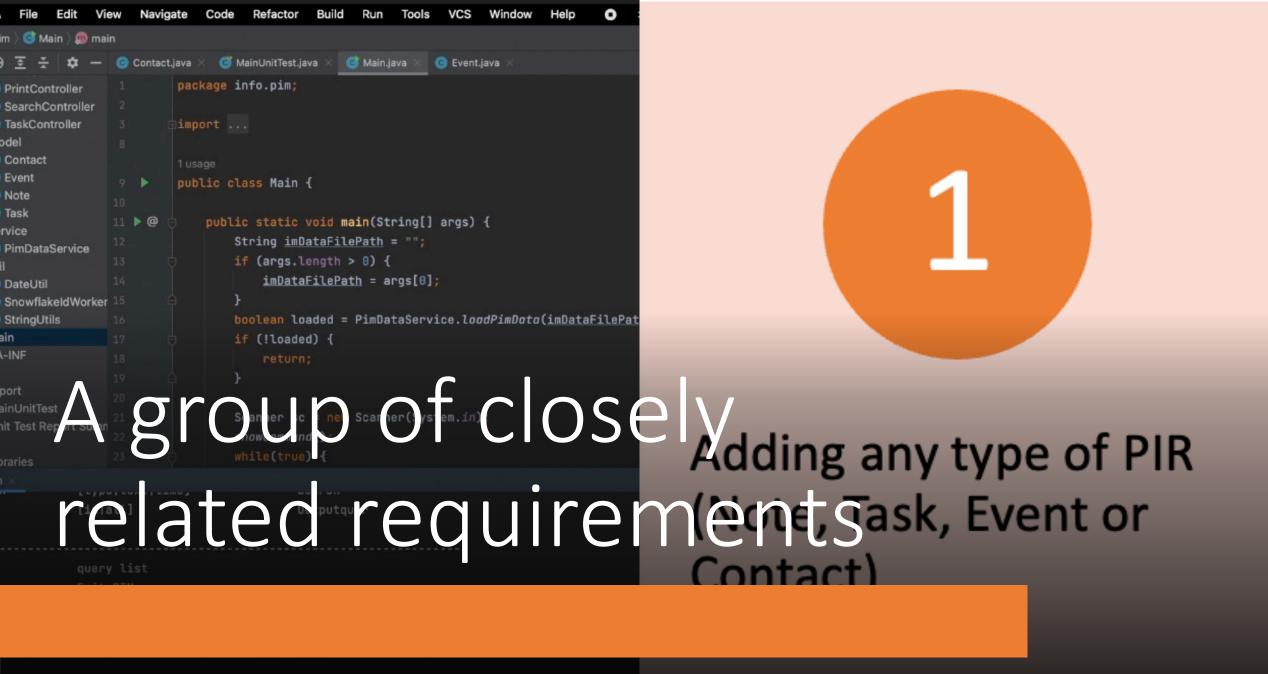
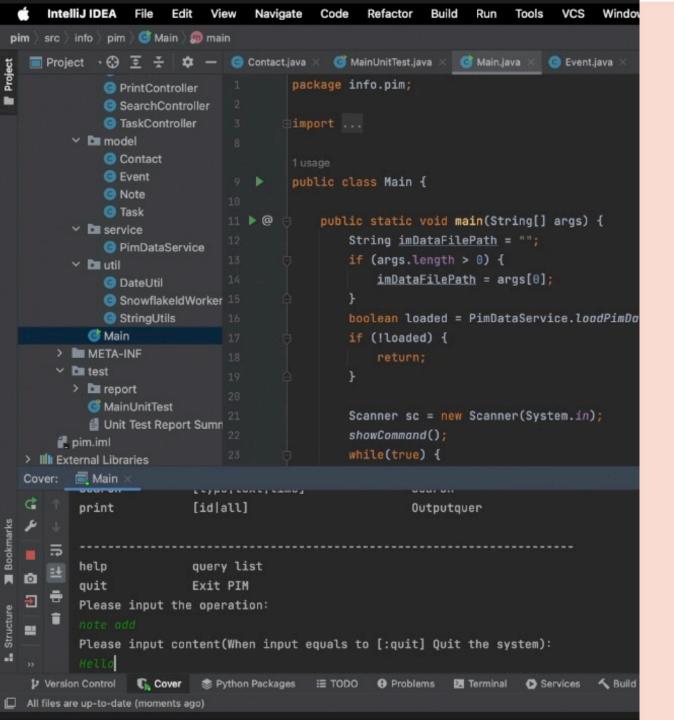


### COMP 3211 Group 35

CHEN Ziyang, Rocky 21095751d LI Shuhang, Hubery 21102658d YE Chenwei, Jesse 21103853d HE Rong, Shawn 21101622d



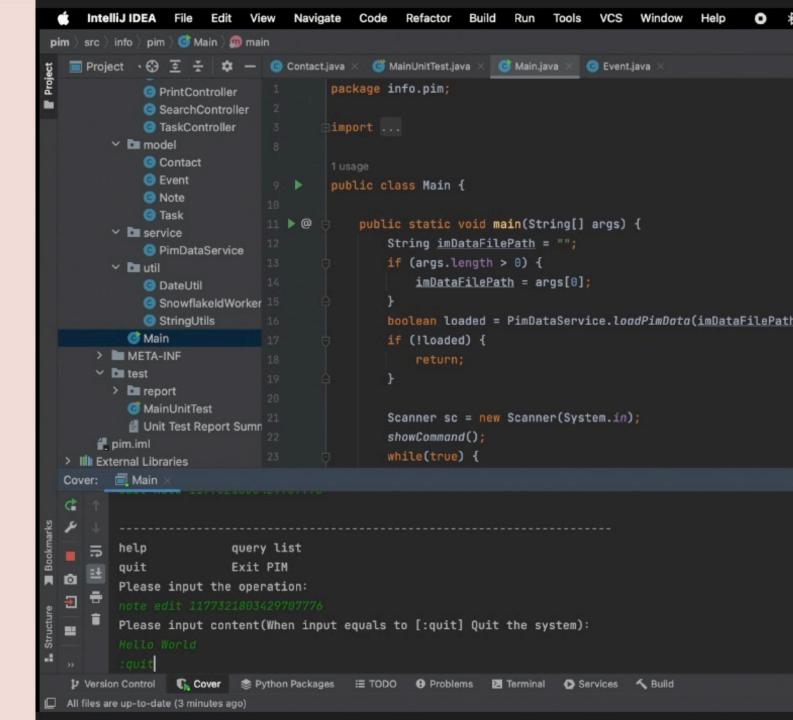




Adding any type of PIR (Note, Task, Event or Contact)

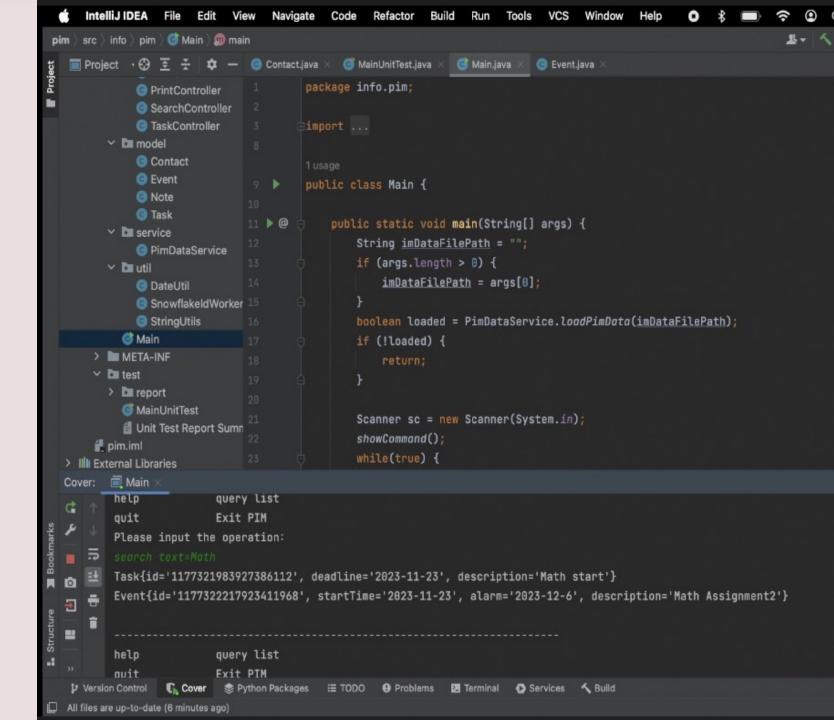


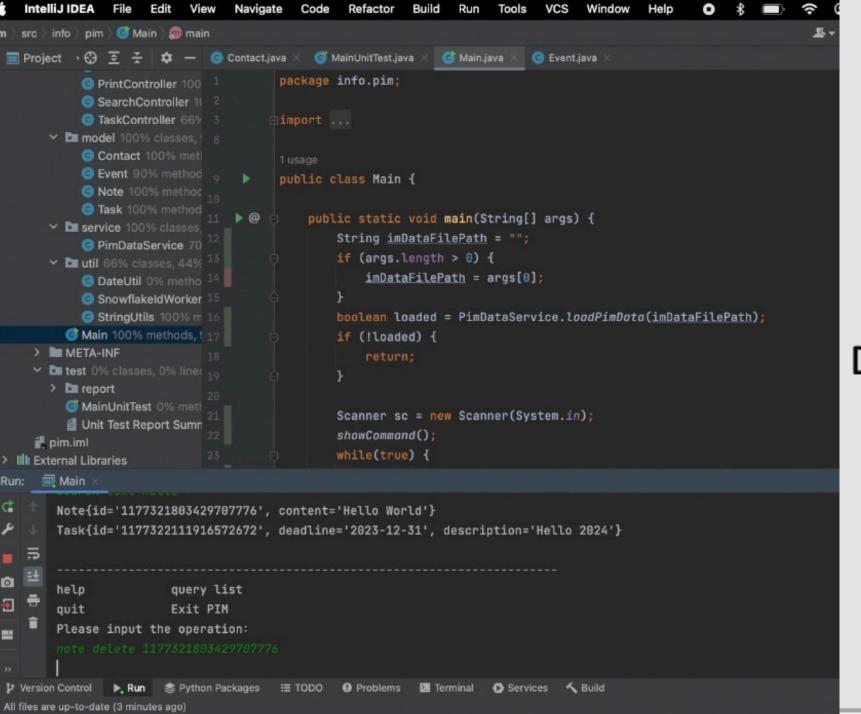
## Modifying any existing PIR





Searching by type, text, and time(Allow users to create compound search criteria by using &&, || or !)

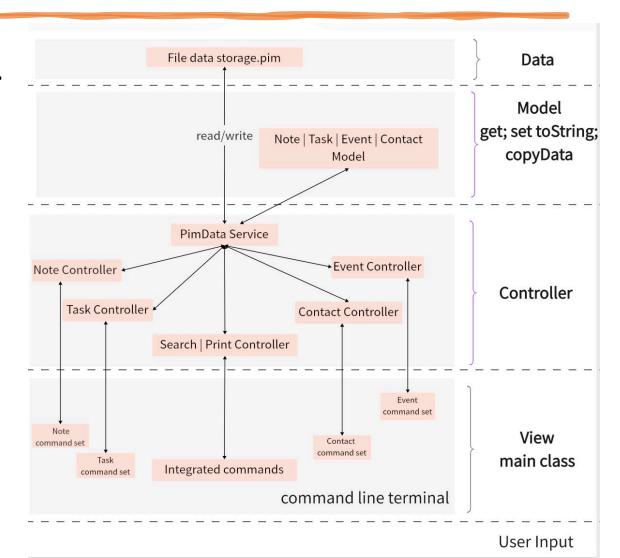




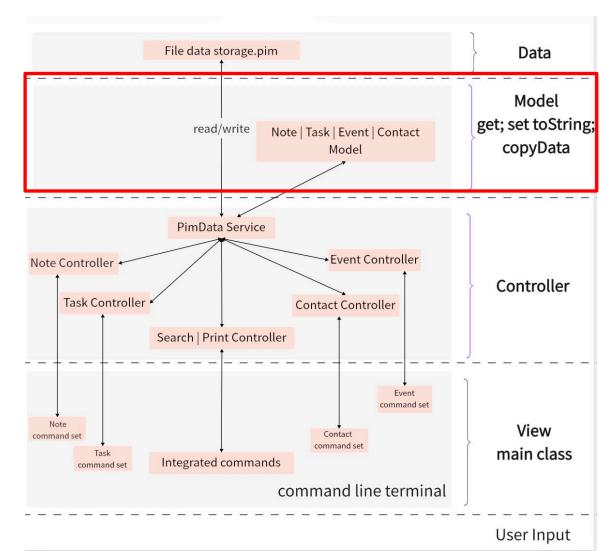


#### Deleting PIR from PIM

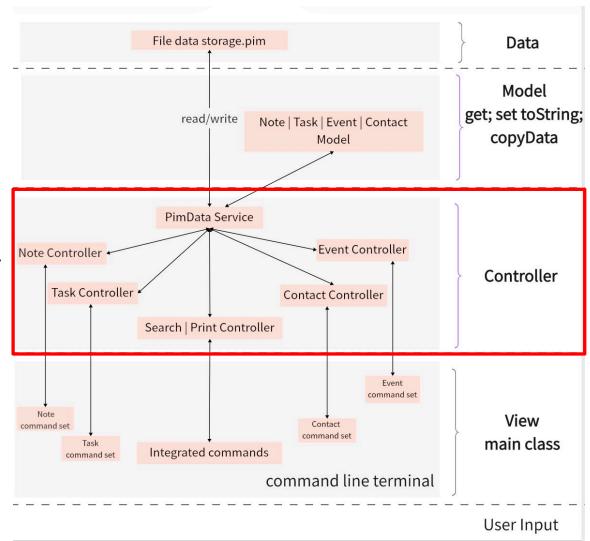
• We adopt the Model-View-Controller architecture pattern.



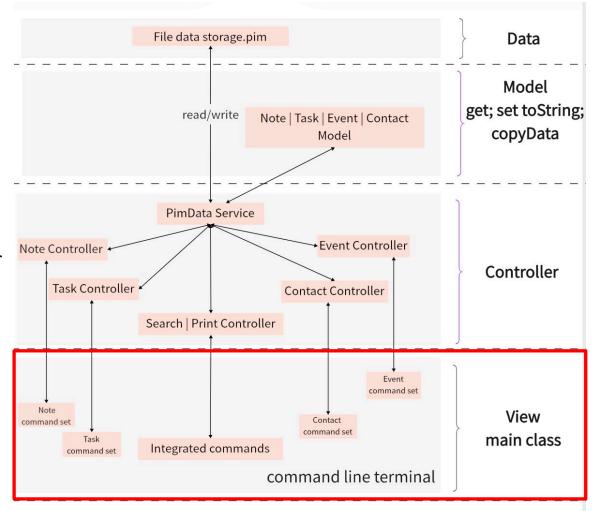
- We adopt the Model-View-Controller architecture pattern.
- Model: Implements entity abstraction of data. The four model classes Note, Task, Event and Contact are defined in the info.pim.model package.



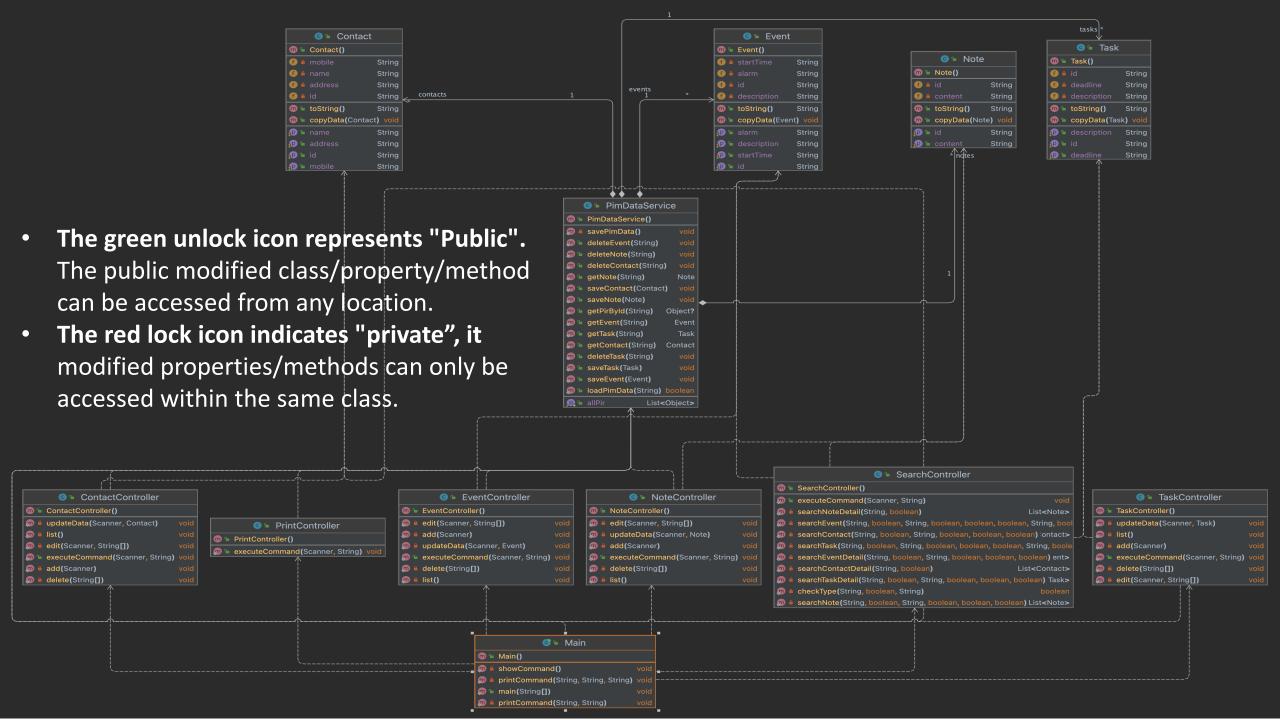
- We adopt the Model-View-Controller architecture pattern.
- Model: Implements entity abstraction of data. The four model classes Note, Task, Event and Contact are defined in the info.pim.model package.
- Controller: includes control classes and service classes. The control class accepts instructions from the view layer, performs some logical processing, and completes data access and update operations through the service class. Four controller classes are defined in the info.pim.controller package: NoteController, TaskController, EventController and ContactController. They process commands entered from the command line and update the model accordingly.

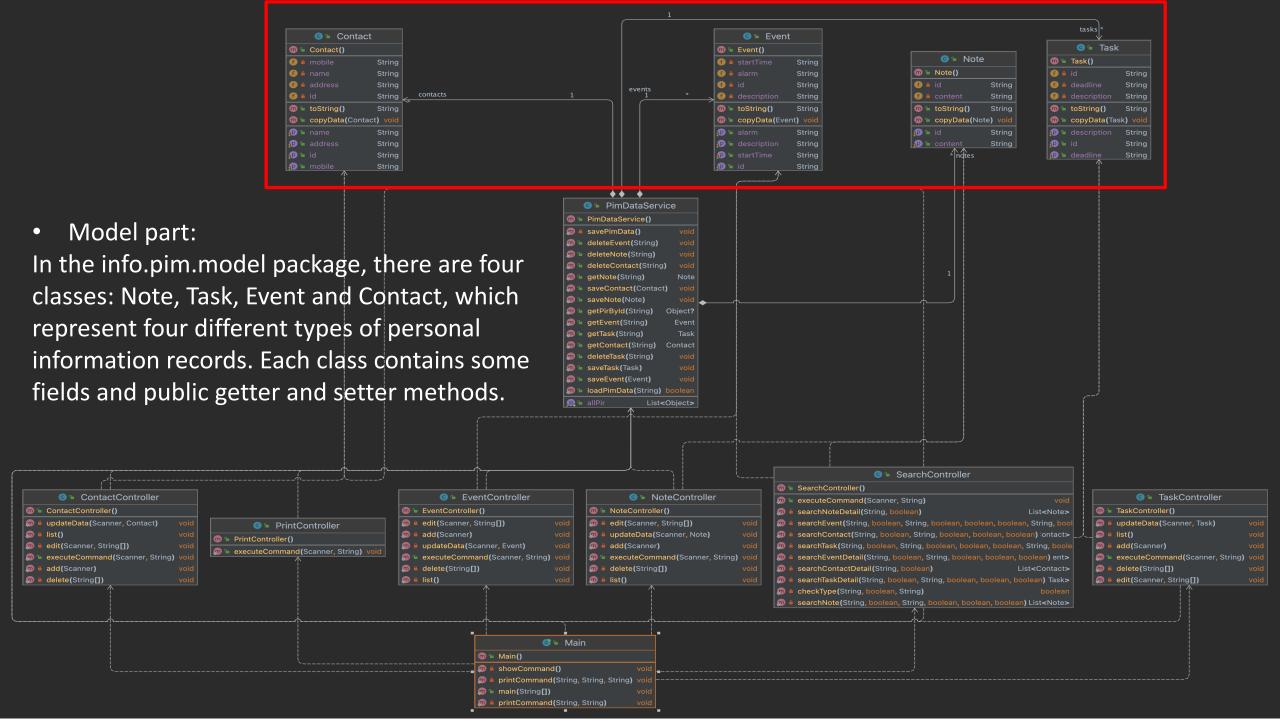


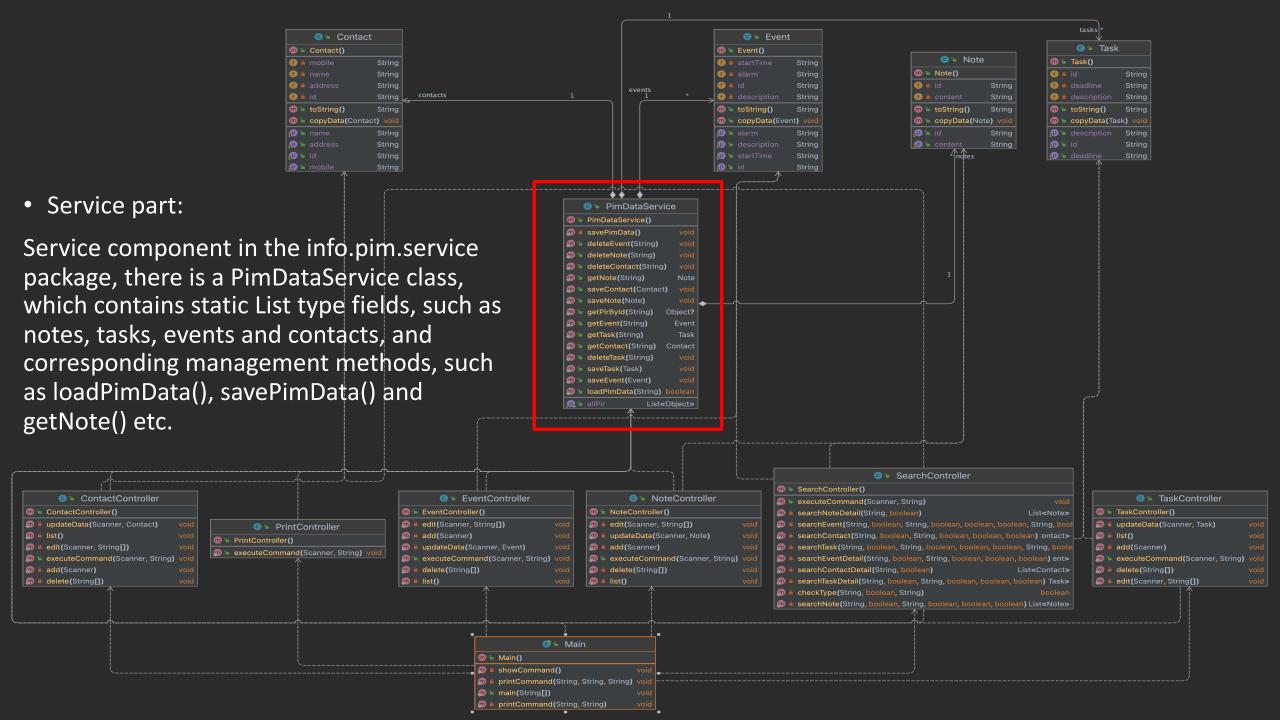
- We adopt the Model-View-Controller architecture pattern.
- **Model:** Implements entity abstraction of data. The four model classes Note, Task, Event and Contact are defined in the info.pim.model package.
- Controller: includes control classes and service classes. The
  control class accepts instructions from the view layer,
  performs some logical processing, and completes data
  access and update operations through the service class. Four
  controller classes are defined in the info.pim.controller
  package: NoteController, TaskController, EventController and
  ContactController. They process commands entered from
  the command line and update the model accordingly.
- View (main): View is the command line interface that interacts with the user, receives system instructions input by the user, and returns the results of the instruction operations to the command line interface.

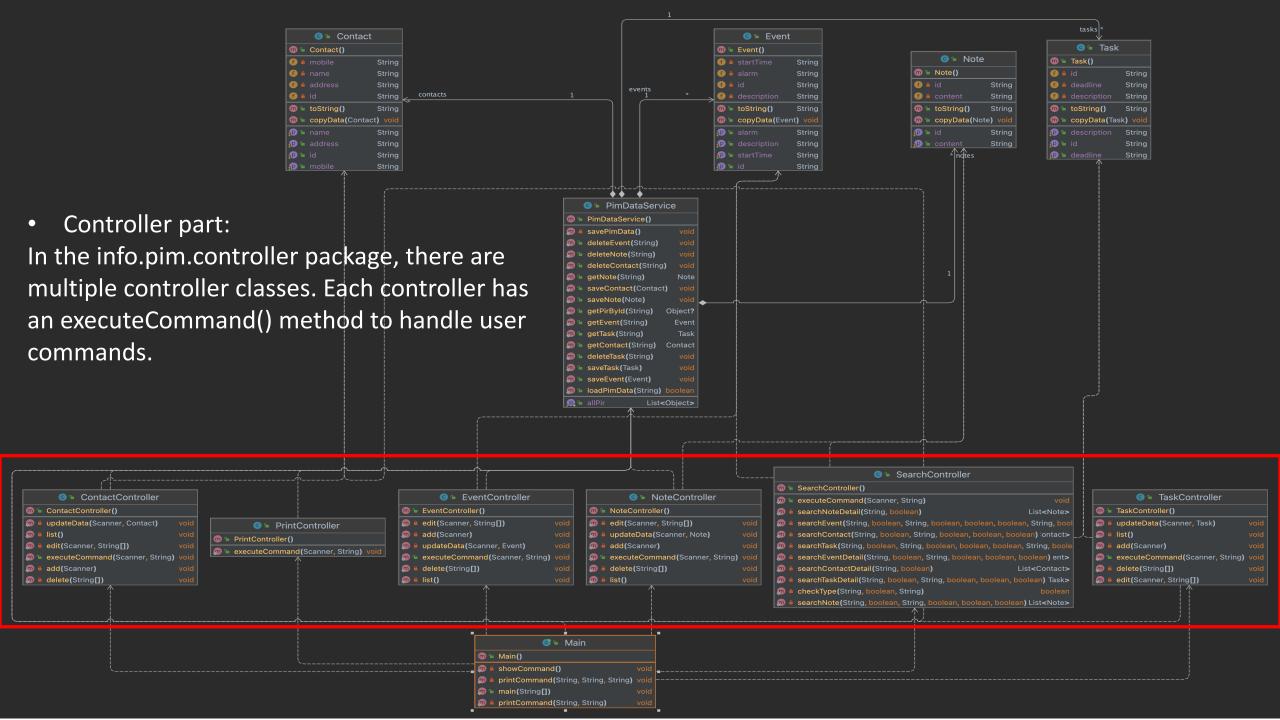


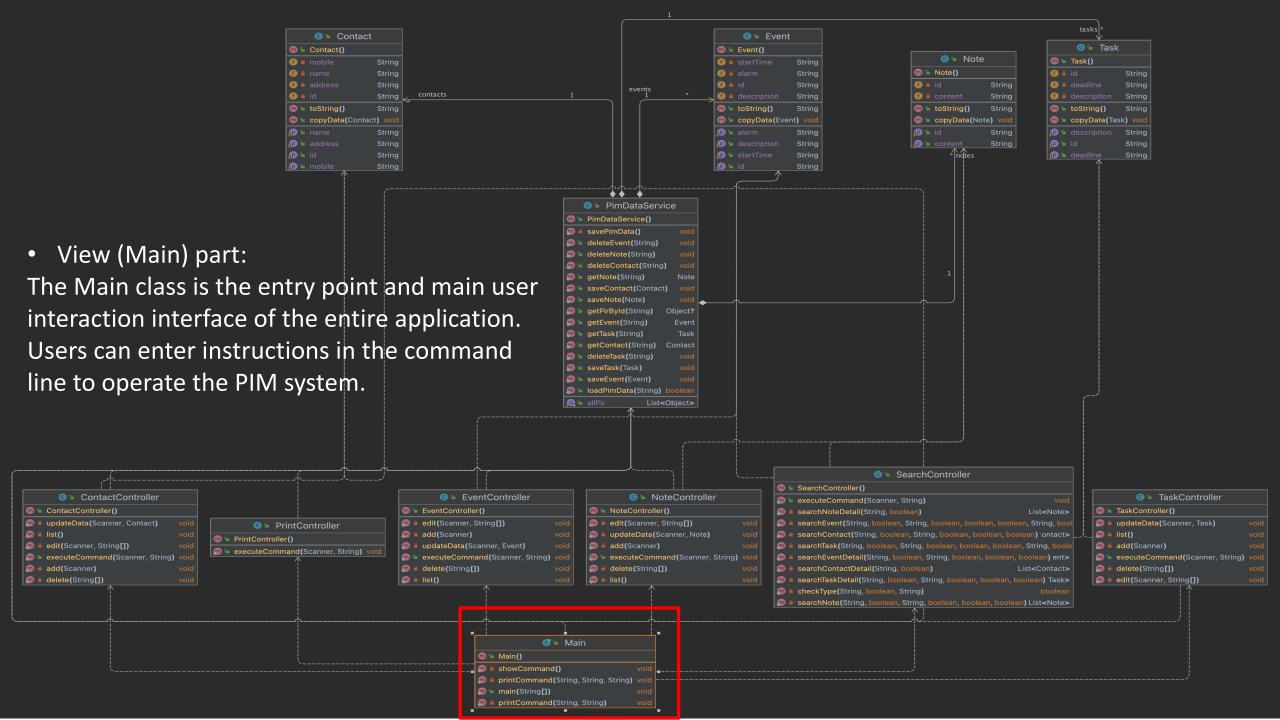
**User Input** 





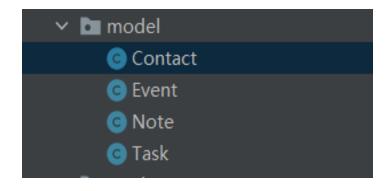






## The strategy adopted when preparing high-quality unit tests for the relevant model code

The model contains four types of PIRs





The code for each type of PIR mainly consists of three parts: get(), set(), toString()

```
public String getId() { return id; }

public void setId(String id) { this.id = id; }

public String getName() { return name; }

public void setName(String name) { this.name = name; }

3 个用法
public String getAddress() { return address; }

3 个用法
public void setAddress(String address) { this.address = address; }

3 个用法
public String getMobile() { return mobile; }

3 个用法
public void setMobile(String mobile) { this.mobile = mobile; }
```

 Comprehensiveness: Tests should cover all major functionality.

• Isolation: Each unit test should be independent of other tests.

optimize test execution time

```
public void testTaskAdd() {
   Task task = new Task();
   String id = PimDataService.idWorker.nextId();
   task.setId(id);
   task.setDeadline(DateUtil.date());
   task.setDescription("description add");
   PimDataService.saveTask(task);
   Task taskSaved = PimDataService.getTask(id);
   assertSame(task, taskSaved);
   String dataStr = "Task{" +
            "id='" + id + '\'' +
            ", deadline='" + taskSaved.getDeadline() + '\
            ", description='" + taskSaved.getDescription()
   assertEquals(task.toString(), dataStr);
```



# Thanks for listening!

