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// Import statements
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import java.util.Set;
import javax.ws.rs.core.Application;

// Deploys/executes the application
class Application {
    // Main method for execution, utilizes SpringApplication
    public static void main(String[] args) {
        SpringApplication.run(Application.class, AccountService.class, args)
    }
}

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// Inbox class
class Inbox {
    # private fields
    private String accountID;
    private List<Message> messages;
    private List<Notifications> notifications;

    // constructor
    Inbox() {
        super();
    }
    // getter methods
    public List<Message> getMessages() {
        return messages;
    }
    public List<Notifications> getNotifications() {
        return notification;
    }

    // Allow the user to modify the inbox, i.e. archive and delete messages
    public void editInbox(String condition) {

        if (condition.equals("Archive")) {
            // have the user choose a message to save
            Message m = mouseClicked()

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        messages.add(m) // append the message to archive
    }
    Else if (condition.equals("Delete") {
        String deleted= mouseSelected ()
        // have the user select the one to delete
        supplies.remove(newSudeletedpply)
        // remove the existing message from the list
    }

}

}

```

Message class

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class Message {
    # private fields
    private String accountID;
    private Account sender;
    private List<String> recipients;
    private List<String> attachments;

    // constructor
    Message() {
        super();
    }

    // two getters
    public List<Message> getMessage() {
        return message;
    }

    public List<Notifications> getAttachments() {
        return attachments;
    }

    // method to send a message.
    // will use java api POST calls
    public void sendMessage() {

        // encode the message,
    }
}

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URLencoder.encode(String, UTF-8)
Open.connection();          // open connection to recievers
connect();
setRequestMethod(POST)    // api POST call
responseCode = getResponseCode()

if responseCode == HTTPURLConnection { // if connection successful, read message
    // read line from keyboard
    While (readline()) {
        Message.append(character)
    }
}
close();          // close connection
}
}
}

```

```

class House {
    // Private fields
    private String Financier;
    private String ContractingCompany;
    private String Supplier;
    private List<String> supplies

    // constructor
    House() {
        super()
    }
    // getters
    public String getFinancier() {
        Return financier
    }
    public String getContractor() {
        Return ContractingCompany
    }
    public String getSupplier() {
        Return financier
    }
}

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// Ability to edit existing supply list of a house
public void editSupplies(String condition) {

    If (condition.equals("Edit") {
        String supply = mouseSelected // allow user to select the supply to modify
        If (supplies.contains(supply)) {
            supplies.edit(realLine()) // edit existing element
        }
    }
    Else if (condition.equals("Add") {
        String newSupply = readLine() // have the user enter in a new supply
        supplies.add(newSupply) // append the new supply to the back of the list
    }
    Else if (condition.equals("Delete") {
        String newSupply = mouseSelected ()
        // have the user select the one to delete
        supplies.remove(newSupply)
        // remove the existing supply to the back of the list
    }

}

}
}

```

```

// import statements
Import javax.model.Person;
Import javax.model.Response;
Import javax.ws.rs.GET;

Class Account {

    // private fields
    private String accountID;
    private String password;
    private List<House> houses;
    private Inbox inbox;

    public void createAccount(String ID, String pass) {

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    Response r = new Response();
    Person p = new Person(ID, pass)
    // if
    If (p.getID() != null || invalid & p.getPassword() != invalid) {
        add(Person) // add new account to database
    }
}

// Will return account information for a user, uses GET api call
public String getAccountInformation() {

    HTTPURLConnection conn = openConnection(URL);
    // api GET call
    conn.setRequestMethod("GET")
    // have user enter in proper identification
    conn.setRequestProperty(readline(), readline())
    Int response = conn.getResponseCode()

    If (response == HTTP-OK) {
        StringBuilder message;

        // get inputStream from the response of the connection
        InputStream get = new InputStream(conn.getInputResonse())
        BufferedReader input = new BufferedReader(get)

        // read and append the message
        While (input.readline != null) {
            // get the returning message from the input stream
            message.append(readLine)
        }

        // if message properly received by client, return the message
        If (builder != null) {
            Return builder
        }
        Else {
            print(error.trace())
        }
    }
}
}

```

}