1. การลงทะเบียน


```java
package int202.mid.exam.mid_exam_041.model;
//65130500041

import lombok.Getter;
import lombok.Setter;


@Getter
@Setter

public class User {
    private String username;
    private String email;

    public User(String username, String email) {
        this.username = username;
        this.email = email;
    }



}
```

```java
package int202.mid.exam.mid_exam_041.model;
//65130500041
import java.util.HashMap;
import java.util.Map;

public class AllUser {
    private static Map<String, User> users = new HashMap<>();


    public static void addUser(User user){
        users.put(user.getUsername(), user);
    }

    public static User getUsername(String username){
        return users.get(username);
    }

    public static User getEmail(String email){
        return users.get(email);
    }
}
```

```java
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import jakarta.servlet.annotation.*;

import java.io.*;
// 65130500041
@WebServlet(name = "RegisterServlet", value = "/041/register")
public class RegisterServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IO
        String username = request.getParameter( s: "username");
        String email = request.getParameter( s: "email");

        User user = new User(username, email);

        AllUser.addUser(user);

        request.getSession().setAttribute( s: "user" ,user);

        request.getServletContext().getRequestDispatcher( s: "/register.jsp").forward(request,response);


    }

    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, I

    }
}
```

```jsp
<%--
  Created by IntelliJ IDEA.
  User: butte
  Date: 30/10/2023
  Time: 10:25
  To change this template use File | Settings | File Templates.
--%>
<%--65130500041--%>
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<html>
<head>
    <title>Register 041</title>
</head>
<body>
    <h3>Midterm Exam Web App by Papangkorn 65130500041</h3>
    <form action="RegisterServlet" method="post">
        User name: <input type="text" name="username"><br>
        Email: <input type="text" name="email">
        <input type="submit" value="Submit">
    </form>




</body>
</html>
```

2. การตรวจสอบจำนวนเฉพาะ

Midterm Exam Web App by Papangkorn 65130500041

Prime Checker::

Enter number to check: [   ] [Submit]

```jsp
1   <%--
2     Created by IntelliJ IDEA.
3     User: butte
4     Date: 30/10/2023
5     Time: 10:59
6     To change this template use File | Settings | File Templates.
7   --%>
8   <%-- 65130500041--%>
9   <%@ page contentType="text/html;charset=UTF-8" language="java" %>
10  <html>
11  <head>
12      <title>Midterm Exam 041</title>
13  </head>
14  <body>
15      <h3>Midterm Exam Web App by Papangkorn 65130500041</h3>
16
17      <h4>Prime Checker::</h4><hr>
18
19      <form action="" method="post">
20          Enter number to check: <input type="text" name="">
21          <input type="submit" value="Submit">
22      </form>
23
24
25  </body>
26  </html>
```

```java
package int202.mid.exam.mid_exam_041.servlet;

import jakarta.servlet.*;
import jakarta.servlet.http.*;
import jakarta.servlet.annotation.*;

import java.io.*;
// 65130500041
@WebServlet(name = "IsPrime", value = "/041/is_prime")
public class IsPrime extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throw
        int number = Integer.parseInt(request.getParameter( s: "number"));
        boolean flag = false;
        for (int i = 2; i <= number / 2; ++i) {
            if (number % i == 0) {
                flag = true;
                break;
            }
        }

        if(!flag ){
            request.setAttribute( s: "message", o: number + "is invalid input");
        } else {
            request.setAttribute( s: "message", o: number + "is a prime number");
        }

    }

    @Override
```

3. ประวัติการตรวจสอบจำนวนเฉพาะ