



FaceID

National Unrecognized Persons' Database

Final Presentation

Group IS-08

Supervisor Ms.Sanduni Thrimahavithana

Mentor - Ms.Kamsa Sharma Nandakumar

Members - 17020141 (Madhavi Bandara)

17020956 (Ashan Tharindu)

17020735 (Taniya Rodrigo)

17020727 (Kavindi Rathnayake)

Our client

Professor Muditha Vidanapathirana

The Head and the Chair Professor of Forensic Medicine, affiliated to the faculty of medical science of University of Sri Jayewardenepura.



Current Problem

- ❑ Data about unidentified bodies stored physically
 - Needs physical space
 - Waste of time
- ❑ Police divisions and the Forensic Department are not interconnected
- ❑ No online platform for the Forensic Department to publish the forensic facial reconstruction outputs (3D Models)
- ❑ No online platform for the public to inform/search for missing persons

Project Introduction

FaceID

The first and the only web platform that connects the Forensic Department , Police ,JMOs and the public of Sri Lanka.

System Boundary

In-Scope

- Dealing with 3D models
- Handling inquiries
- User Management
- Handling the information portal

System Boundary

Out of scope

- Finding bodies , examining them and collecting data
- Creating 3D models

FUNCTIONAL REQUIREMENTS

1.Forensic Department (Admin)

- ❑ Log in to the system
- ❑ Manage officials' accounts
- ❑ View Registered User details
- ❑ Respond to inquiries/requests
- ❑ Manage information portal



FUNCTIONAL REQUIREMENTS

2. Police

- ❑ Log in to the system
- ❑ Add/Delete details about unidentified bodies
- ❑ Respond to inquiries/requests sent by the registered users
- ❑ Request for 3D models



FUNCTIONAL REQUIREMENTS

3. Registered User

- ❑ Log in to the web site
- ❑ View Information portal
- ❑ View details about unidentified bodies
- ❑ Respond under unidentified bodies
- ❑ Contact the forensic department
- ❑ Search for missing persons
- ❑ Inform about missing persons if the matching results are not found



FUNCTIONAL REQUIREMENTS

4. Public User

- ❑ View Information portal.
- ❑ View basic details about unidentified bodies.
- ❑ Contact the Forensic Department.
- ❑ Search for missing for persons.
- ❑ Register by making an account.



FUNCTIONAL REQUIREMENTS

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5. JMO

- ❑ View uploaded records
- ❑ Log in to the web site
- ❑ Edit records
- ❑ Upload records



FUNCTIONAL REQUIREMENTS

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6. Model Creator

- ❑ Log in to the web site
- ❑ View uploaded records
- ❑ Upload 3D models
- ❑ Receive requests

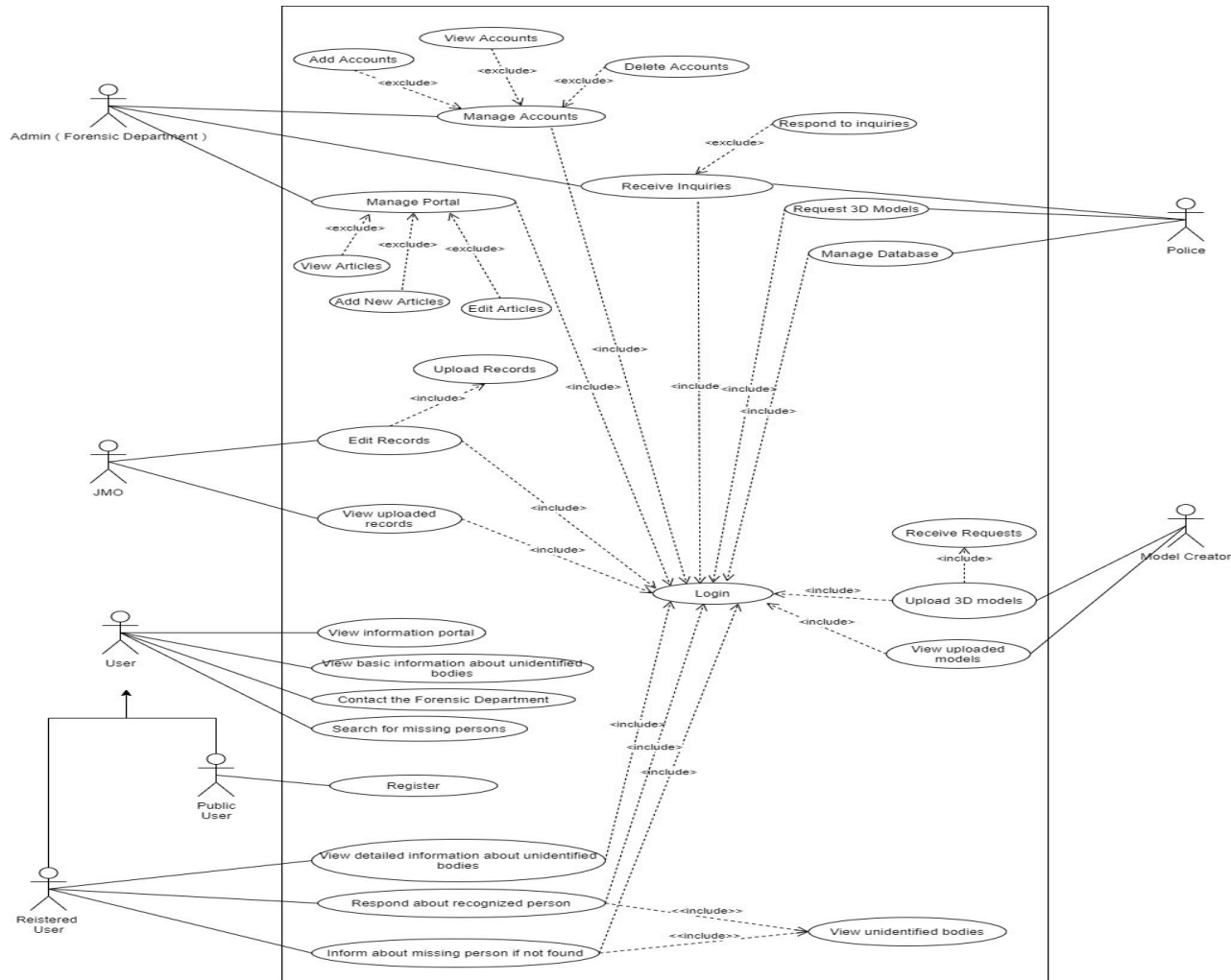


Non functional requirements

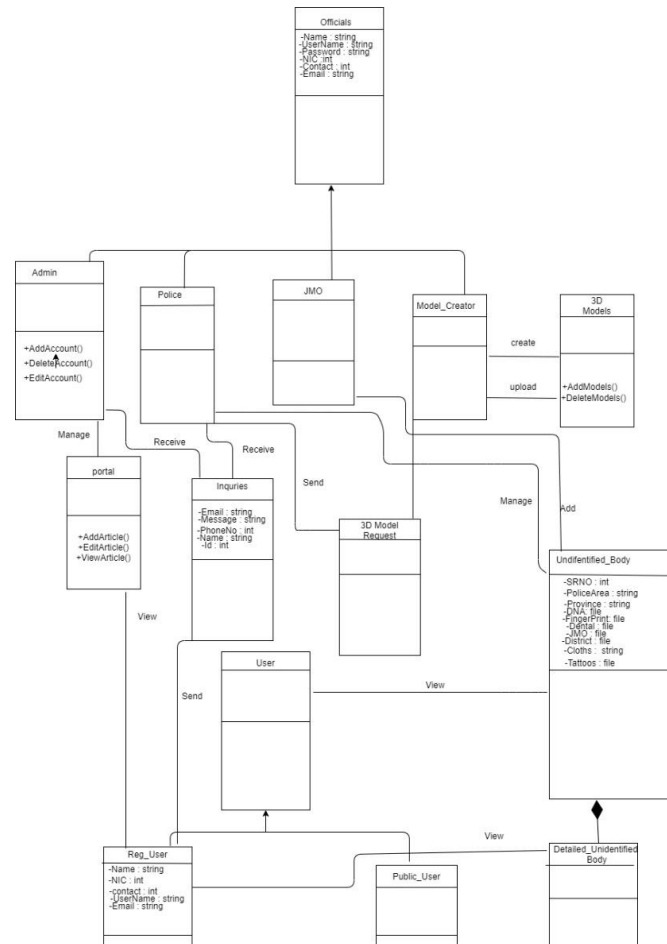
- ❏ Modifiability /Extendability
- ❏ Security
- ❏ Performance
- ❏ User-friendliness
- ❏ Data backup



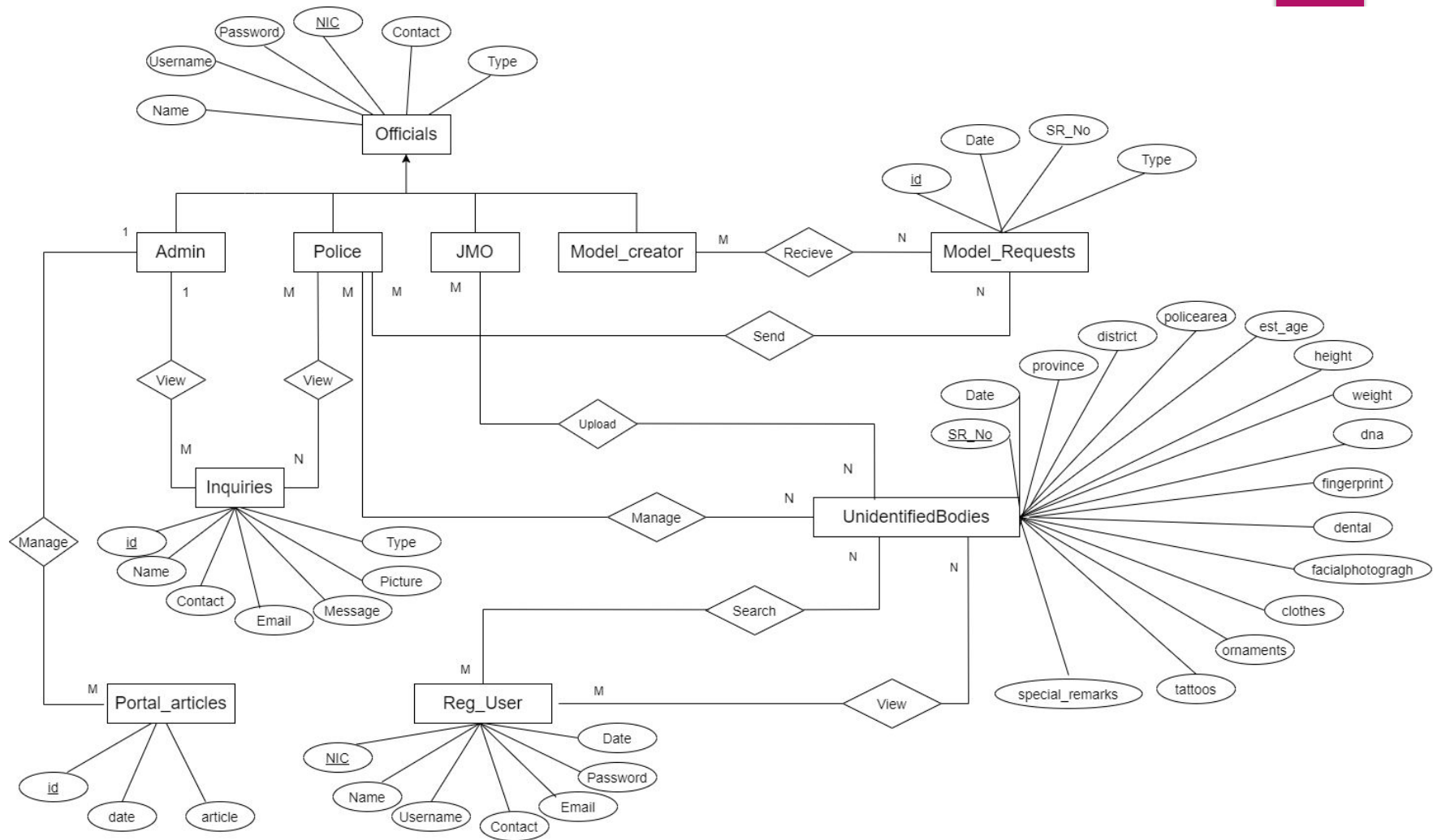
USE CASE Diagram



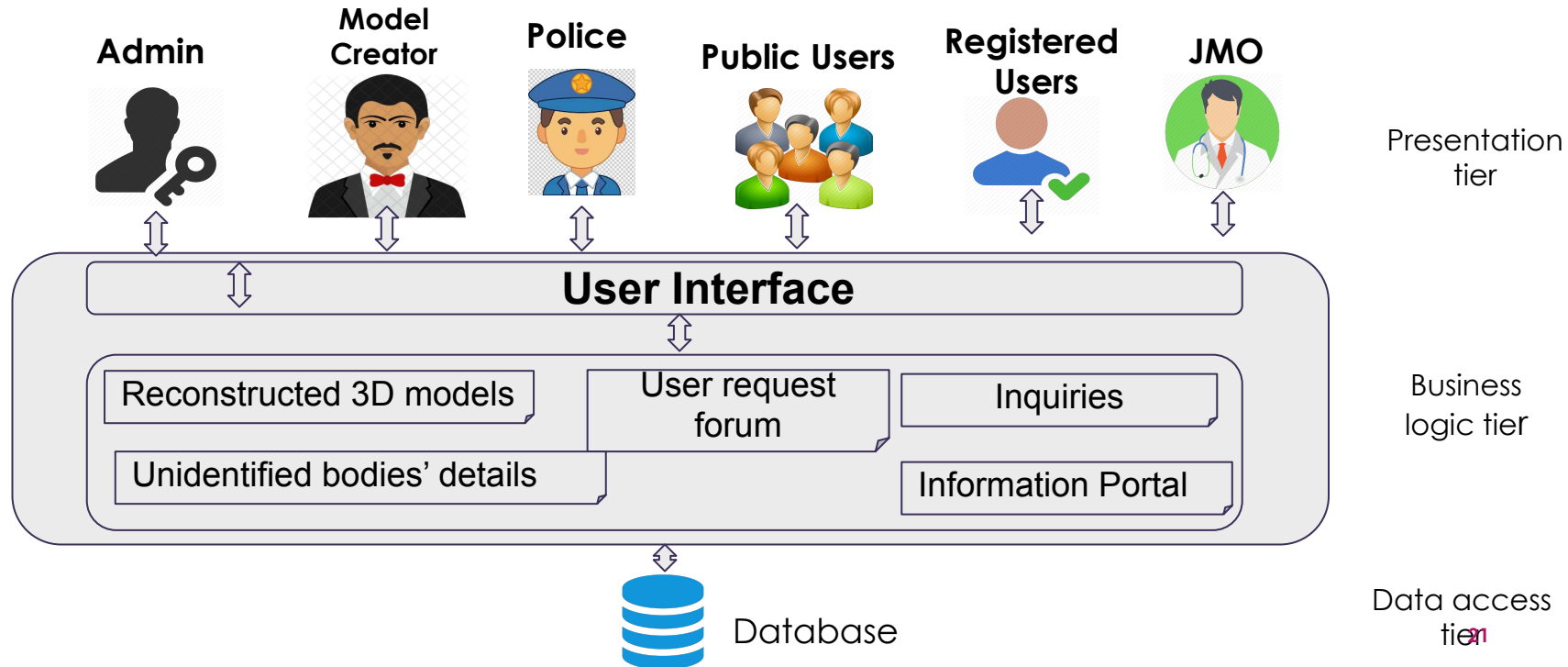
Class Diagram



ER Diagram



High Level System Architecture



Testing

Manual Testing- (Example TestCase)

Test case	Test Data	Expected Result	Actual Result	Pass/Fail
TC-01	Login function NIC="ab" password=123	Should restrict logging in	Error message is generated	pass



Manual Testing- (Example TestCase)



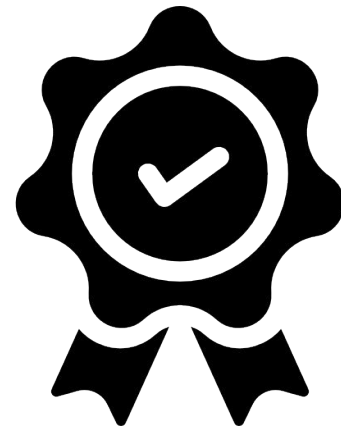
Test case	Test Data	Expected Result	Actual Result	Pass/Fail
TC-02	Registration function Test data Insert an existing NIC into the form	Should reject the entry	Error message will be generated	pass

Overall Completeness

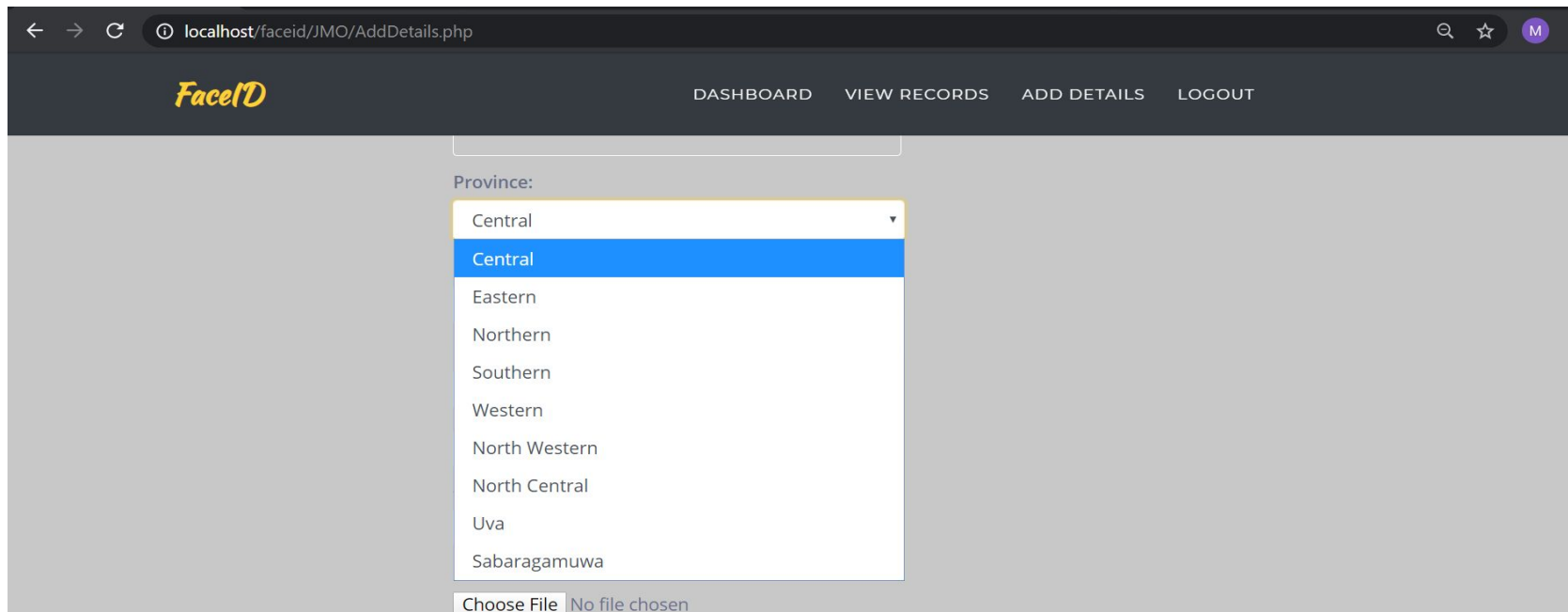
- ❑ Data about unidentified bodies stored physically- Digital database to store all the information
- ❑ Police divisions and the Forensic Department are not interconnected - Online platform to interconnect all stakeholders
- ❑ No way of publishing forensic facial reconstruction outputs (3D Models)- Platform which is compatible for 3D models
- ❑ No way of searching for missing persons - Platform provides convenient search options

User Experience

- ❑ Dropdowns and suggestions
- ❑ Calendar pickers
- ❑ Display appropriate error messages
- ❑ Dashboards and panels for easy navigation
- ❑ Consistent user friendly interfaces



Dropdowns and suggestions



Calendar pickers

FaceID

DASHBOARDVIEW RECORDSADD DETAILSLOGOUT

Date

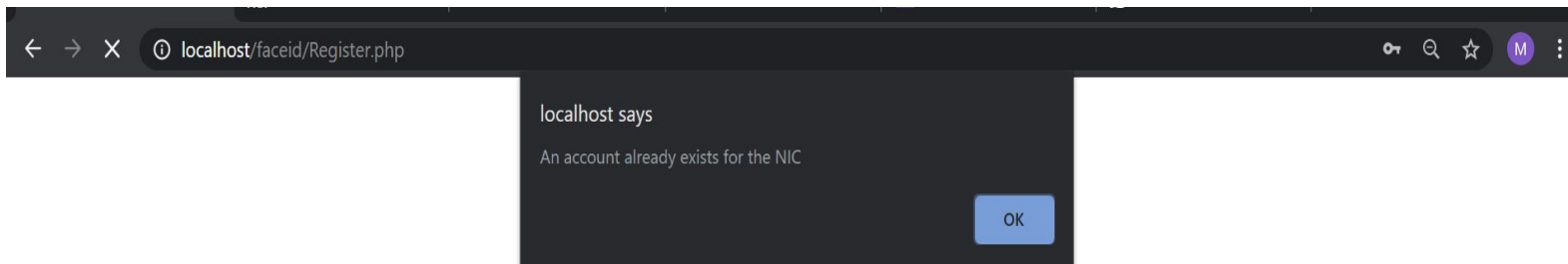
mm/dd/yyyy

February 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

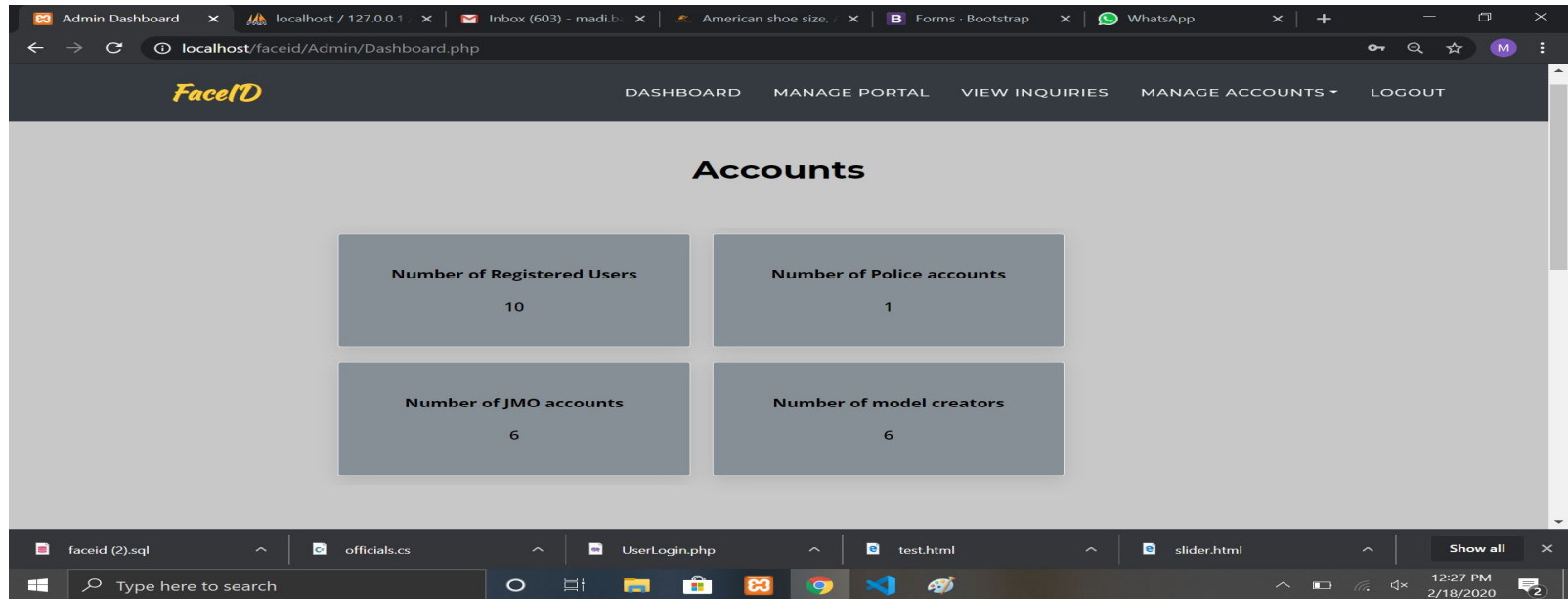
Estimated age

Display appropriate error messages

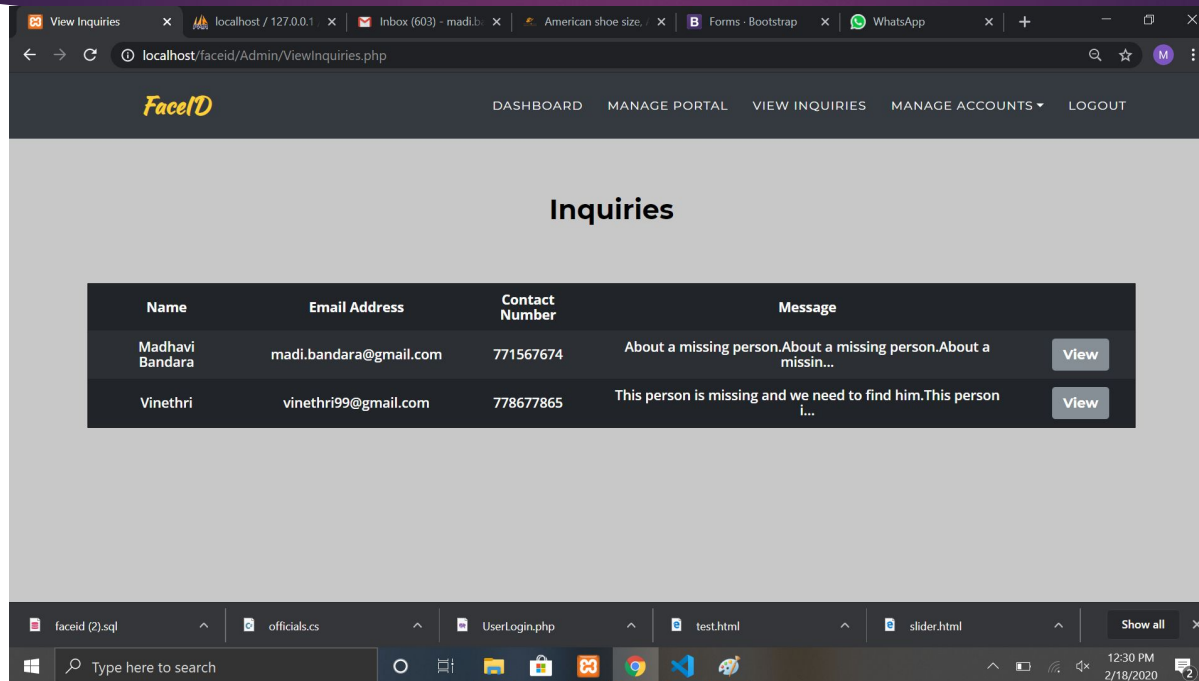


Dashboards and panels for easy navigation

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Consistent user friendly interfaces



Quality Attributes and Best Practises

- ❑ Modularized development - Maintainability
- ❑ Security - Sensitive data are hashed, Access Control
- ❑ Usability
- ❑ Use of Comments



Best Practices

❏ Adding Comments

❏ Indentation

The screenshot shows the Visual Studio Code interface with a project named 'FACEID'. The Explorer panel on the left displays the file structure, including folders for 'fonts', 'img', 'js', 'contactus', 'form.php', 'login', 'admin', 'style.css', 'admin.php', 'admin.html', 'config.php', 'police', 'img', 'style.css', 'config.php', 'formhospital.html', 'formhospital.php', 'police_signin.html', 'police.php', 'registered_user', 'index.html', 'signin.css', and 'OUTLINE'. The main editor window shows the 'index.html' file with the following code:

```
<!-- ... -->
<div class="page-top">
  <div class="infoportal-caption">
    <h2><a href="othergallery.html">Other Resources</a></h2>
    <p class="text-muted">All other resources</p>
  </div>
</div>
</div>
</section>
<section id="portal" style="background-color: #f5f5f5;">
  <div class="container">
    <div class="row">
      <div class="col-lg-12 text-center">
        <h2 class="text-uppercase">Portal</h2>
        <h3 class="text-muted section-subheading">&nbsp;&nbsp;&nbsp;View the Database</h3>
      </div>
    </div>
  </div>
</section>
<section id="contact" style="background-image:url('assets/img/map-image.png');">
  <div class="container">
    <div class="row">
      <div class="col-lg-12 text-center">
        <h2 class="text-uppercase section-heading">Contact Us</h2>
        <h3 class="section-subheading text-muted">Send your requests here</h3>
      </div>
    </div>
    <div class="row">
      <div class="col-lg-12">
        <form action="/contactus/form.php" method="POST" id="contactform" name="contactform" novalidate="novalidate">
          <div class="form-row">
            <div class="col col-md-6">
              <div class="form-group"><input class="form-control" type="text" required="" name="name" placeholder="You" />
              <div class="form-group"><input class="form-control" type="email" required="" name="email" placeholder="Yo" />
              <div class="form-group"><input class="form-control" type="tel" required="" name="phone" placeholder="Your" />
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>
</section>
```

Technologies Used (Front-End)



Technologies Used (Back-End)



Technical exposure

- ❑ We were able to practically apply the concepts of relational databases by using SQL and PHP for our backend
- ❑ We also gained the experience of hard coding interfaces and also using frameworks like bootstrap

Demonstration

ANY QUESTIONS?

THANK YOU!