

CHAPTER IV

SOFTWARE DEVELOPMENT AND TESTING

This chapter offers a comprehensive description of all major activities involved in the design and testing of the Thesis Routing System (TRS). It comprises a discussion of strategies employed in the system development process, the precise steps taken in the construction process, and activities undertaken for the system's maintenance throughout its entire life.

DEVELOPMENT PROCESS

The systematic software development process of the Online Request of Credentials System (ORCS) is illustrated through the input-process-output diagram shown in Figure #.

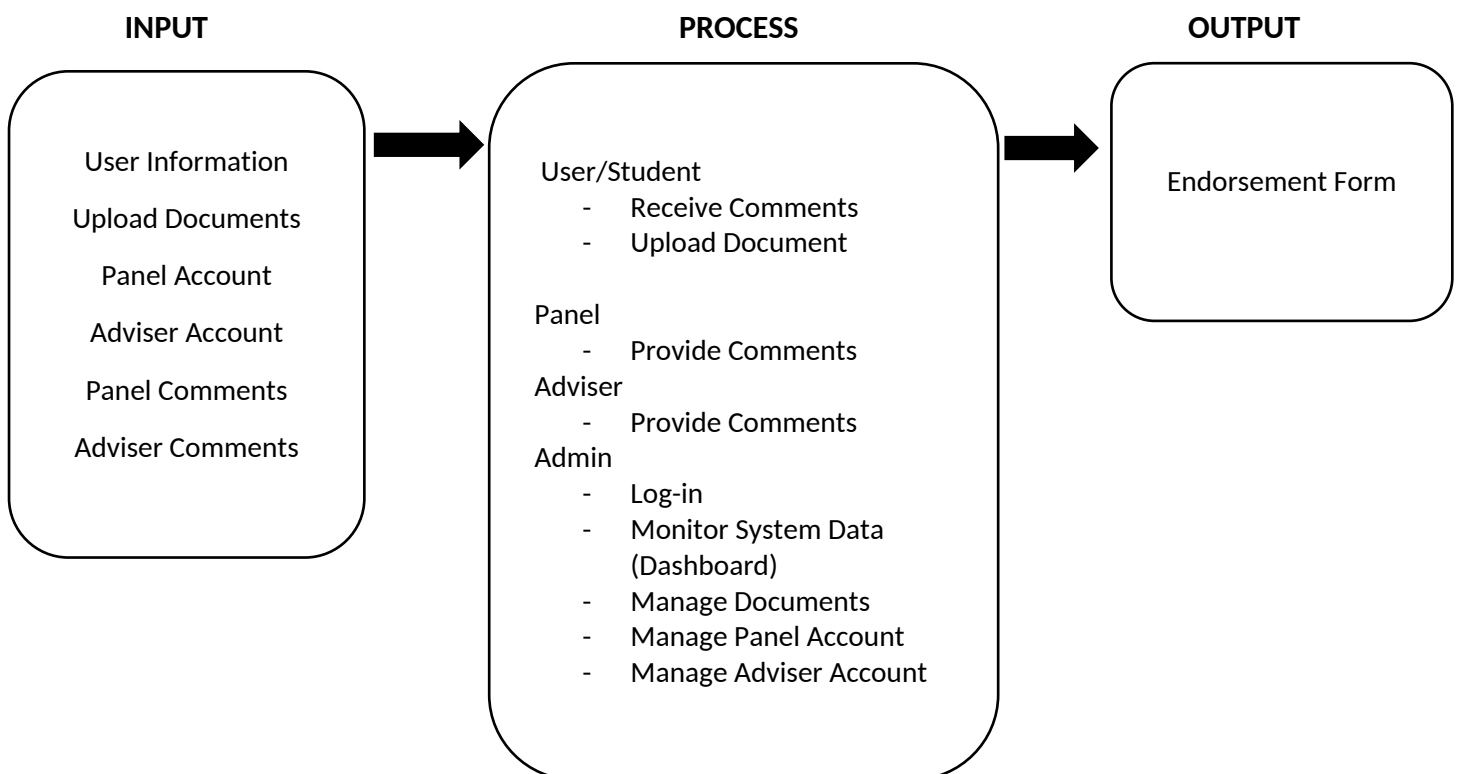


Figure #. Input-Process-Output Diagram

Input

The input "User Information," "Upload Documents," "Panel Account," "Adviser Account," "Panel Comments," and "Adviser Comments" represent essential data elements processed within the system. User Information contains details about individuals accessing the system, ensuring proper identification and role assignment. Upload Documents allows users to submit their documents so the panel and adviser can critique them. The Panel Account is assigned to panel members who review submissions and provide expert feedback, while the Adviser Account is designated for advisers guiding users through the process. Panel Comments and Adviser Comments serve as communication tools, enabling panel members and advisers to provide critiques, suggestions, and necessary revisions. These inputs collectively support document management, user authentication, and feedback integration within the system.

Process

The system follows a structured process that provides for various user roles. Users/Students who can upload documents for review and obtain feedback from both panel members and advisers. Panel members are responsible for reviewing all submissions and issuing comments, whereas advisers evaluate the documents and give advice. The admin checks the overall management of the entire process by logging in and monitoring system data through the dashboard, managing documents, and managing both panel and adviser

accounts. This whole workflow guarantees the efficient submission of documents, structured feedback on them, and effective management of the system.

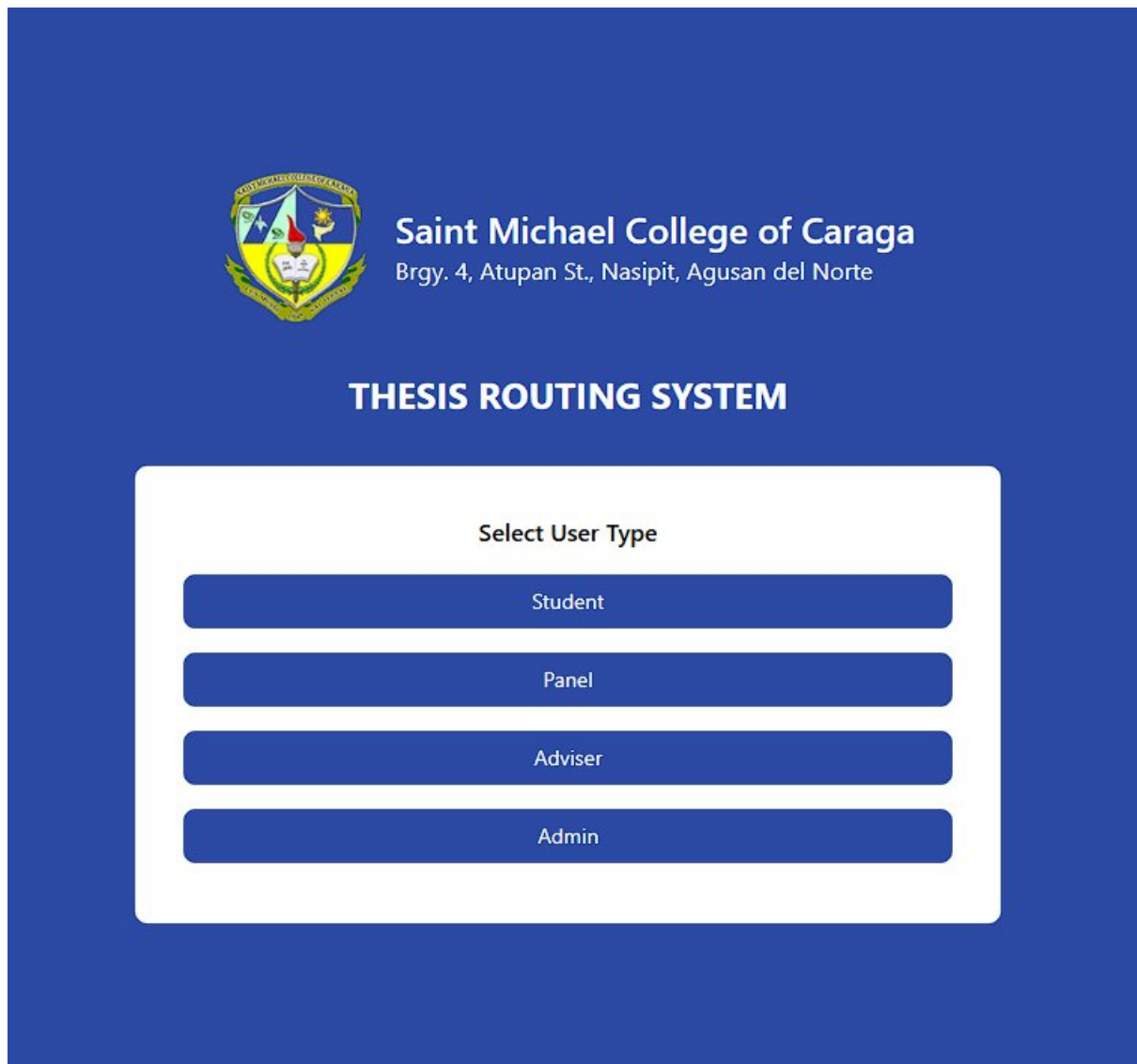


Figure #. Landing Page

Figure # shows the first thing the Users will see when they access the system. The user will choose student, panel, adviser, and admin.

```
const buttonData = [  
  {  
    label: 'Student',  
    onClick: () => {  
      router.push('/auth/student');  
    },  
  },  
  {  
    label: 'Panel',  
    onClick: () => {  
      router.push('/auth/panel');  
    },  
  },  
  {  
    label: 'Adviser',  
    onClick: () => {  
      router.push('/auth/adviser');  
    },  
  },  
  {  
    label: 'Admin',  
    onClick: () => {  
      router.push('/auth/admin');  
    },  
  },  
];
```

Figure #. Code Snippet for Landing Page

Figure # This JavaScript code, written for a React (Next.js) environment, is designed to allow users to select their role before logging in.



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THESIS ROUTING SYSTEM

Student Login

ID Number

Password

Login

No account yet? [Register here](#)

Figure #. Login Page - Student

Figure # This UI is for Student Login Input ID Number, And Password if the student doesn't have an account he/she can register.

```

<div className="flex flex-col justify-center bg-white w-[90%] md:w-[60%] lg:w-[40%] rounded-lg mx-auto p-8">
  <h1 className="text-center font-semibold text-xl mb-8">
    Student Login
  </h1>
  <TRSInput
    label={'ID Number'}
    placeholder={'Enter your ID Number'}
    value={idnumber}
    onChange={(e) => setIdnumber(e.target.value)}
  />
  <TRSInput
    label={'Password'}
    placeholder={'Enter your password'}
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    type="password"
  />
  <TRSButton
    label={` ${loginLoading ? 'Logging in...' : 'Login'} `}
    onClick={handleLogin}
  />
  <p className="text-center text-sm">
    No account yet?{' '}
    <span>
      <Link
        href="/auth/student/register"
        className="font-semibold text-smccprimary"
      >
        Register here
      </Link>
    </span>
  </p>
</div>

```

Figure #. Code Snippet for Login Page - Student

Figure # This React (Next.js) component creates a Student Login interface with a responsive, centered design using Tailwind CSS. It includes input fields for ID Number and Password, a login button that updates dynamically, and a registration link for new users.



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THESIS ROUTING SYSTEM

Register as Student

Student ID

Password (at least 6 characters)

Confirm Password

Researcher Info

Complete Name

Group Members

+ Add Members

School Year

College



Adviser



Group Number

Submit Registration

Already have an account? [Login here](#)

Figure #. Registration Page

Figure # In this UI the Student needs to input their information Student ID, Password, Complete Name of the Leader, Complete Name of Member, School Year, College or Course, Adviser, and Group Number.

```

<div className="flex flex-col justify-center bg-white w-[90%] md:w-[60%] lg:w-[40%] rounded-lg mx-auto p-8">
  <h1 className="text-center font-semibold text-xl mb-8">
    Register as Student
  </h1>
  <TRSInput
    label={'Student ID'}
    placeholder={'Enter your ID Number'}
    value={idnumber}
    onChange={(e) => setIdnumber(e.target.value)}
  />
  <TRSInput
    label={'Password (at least 6 characters)'}
    placeholder={'Enter your password'}
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    type="password"
  />
  <TRSInput
    label={'Confirm Password'}
    placeholder={'Confirm your password'}
    value={confirmPassword}
    onChange={(e) => setConfirmPassword(e.target.value)}
    type="password"
  />

  <p className="-mt-2 text-red-500 text-xs">
    {!passwordMatched & (confirmPassword !== '')
      ? 'Passwords do not match.'
      : ''}
  </p>

  <p className="text-center font-semibold text-smccprimary">
    Researcher Info
  </p>

```

```

<TRSInput
  label={'Complete Name'}
  placeholder={'Enter your Complete Name'}
  value={name}
  onChange={(e) => setName(e.target.value)}
/>

<div className="flex justify-between items-center mb-2">
  <div>
    <label className="mb-2 text-sm font-medium text-gray-700">
      Group Members
    </label>
  </div>
  <div>
    <button
      className="text-sm bg-smccprimary text-white px-2 py-2 rounded-lg hover:bg-blue-600"
      onClick={() => setMemberCount(memberCount + 1)}
    >
      + Add Members
    </button>
  </div>
</div>

{Array.from({ length: memberCount }).map((_, index) => {
  return (
    <TRSInput
      key={index}
      placeholder={`Enter your Member ${index + 1} Name`}
      value={membersList[index] || ''}
      onChange={(e) => {
        const updatedMembersList = [...membersList];
        updatedMembersList[index] = e.target.value;
        setMembersList(updatedMembersList);
      }}
    />
  );
});
}}

```

Figure #. Code Snippet (Query) for Registration Page

Figure # this next.js code is for input information for Student.

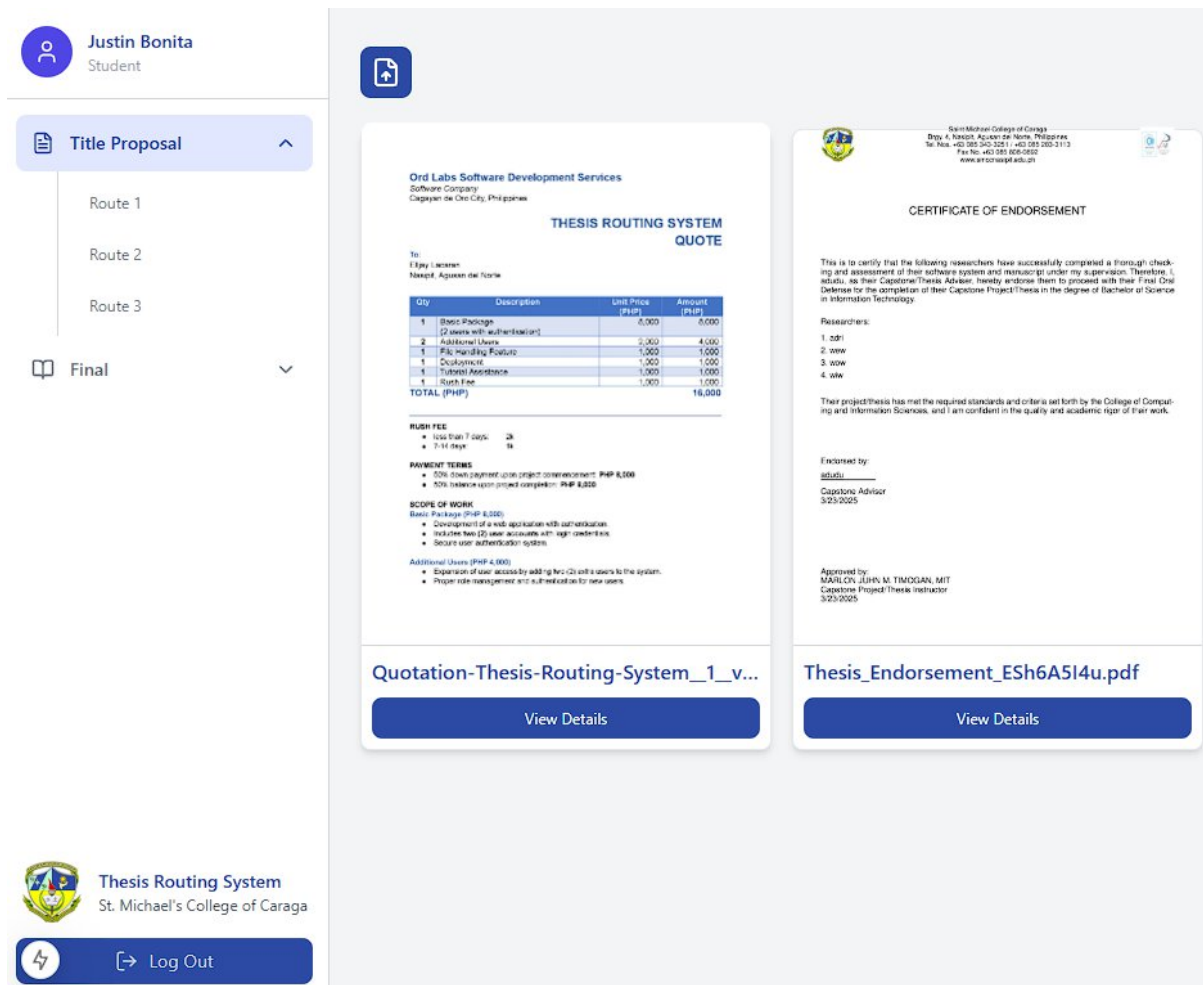


Figure #. Route 1 - Student

Figure # This UI shows the documents that were submitted for the student, and the sidebar has route1, route2, and route3 for the proposal same for the Final.

```

<div className="flex flex-col justify-center md:items-start">
  <div className=" md:ml-0 mb-4 ml-12 ">
    <SubmitFile />
  </div>
  {loading ? (
    <div className="flex justify-center w-full items-center h-40">
      <div className="w-10 h-10 border-4 border-gray-300 border-t-blue-500 rounded-full animate-spin"></div>
    </div>
  ) : (
    <div className="w-full flex flex-wrap gap-4 justify-center md:justify-start">
      {theses.length > 0 ? (
        theses.map((thesis) => (
          <StudentFileCard
            key={thesis.id}
            onDelete={handlePaperDeleted}
            paperId={thesis.id}
            pdfUrl={thesis.fileUrl}
          />
        ))
      ) : (
        <p className="text-gray-500 text-center">No thesis papers found.</p>
      )}
    </div>
  )}
</div>

```

Figure #. Code Snippet for Documents - Student

Figure # This next.js code grabs all the files submitted by the student.

```

<nav className="flex-1 p-3 overflow-y-auto scrollbar-thin scrollbar-thumb-gray-600 scrollbar-track-gray-800">
  <SidebarSection
    icon={FileText}
    title="Title Proposal"
    active={activeSection}
    setActiveSection={setActiveSection}
    links={[
      { name: 'Route 1', href: '/student/proposal/route-1' },
      { name: 'Route 2', href: '/student/proposal/route-2' },
      { name: 'Route 3', href: '/student/proposal/route-3' },
    ]}
    onLinkClick={() => setIsOpen(false)}
  />

  <SidebarSection
    icon={BookOpen}
    title="Final"
    active={activeSection}
    setActiveSection={setActiveSection}
    links={[
      { name: 'Route 1', href: '/student/final/route-1' },
      { name: 'Route 2', href: '/student/final/route-2' },
      { name: 'Route 3', href: '/student/final/route-3' },
    ]}
    onLinkClick={() => setIsOpen(false)}
  />
</nav>

```

Figure #. Code Snippet (Query) for Sidebar

Figure # This next.js code is for the sidebar that shows in the students UI.

Upload your file here

File naming convention: Group<#>_<ThesisTitle>_<Date-Uploaded>.pdf
e.g. Group1_ESP32WifiServers_2025-03-01.pdf

Choose adviser to proceed to uploading.

Kzan Zarkev

Robert Adviser

Nzak Kazne

Mike ZUcjerber

Upload File

Figure #. Submit Document

Figure # shows the names of advisers and the upload file button.

```
<div className="flex flex-col gap-4 my-5 max-h-72 overflow-y-auto">
  {advisers.map((adviser) => (
    <div
      className={` ${
        chosenAdviser.id === adviser.id
          ? 'bg-smccprimary text-white'
          : 'bg-white border border-gray-300 text-gray-700'
      } cursor-pointer w-full p-4 rounded-lg hover:bg-gray-200`}
      onClick={() => {
        setChosenAdviser(adviser);
        setIsadviserChosen(true);
      }}
      key={adviser.id}
    >
      {adviser.name}
    </div>
  ))}
</div>
```

Figure #. Code Snippet (Query) for Names of Advisers

Figure # This next.js code is for the list of the names of Advisers.

```

<button
  onClick={() => ikUploadRef.current.click()}
  className={`text-sm ${
    isAdviserChosen
      ? 'bg-smccprimary cursor-pointer'
      : 'bg-gray-600 pointer-events-none'
  } w-full rounded-lg py-2 text-white`}
  type="button"
  disabled={uploading || !isAdviserChosen}
>
  {uploading ? 'Uploading...' : 'Upload File'}
</button>

```

Figure #. Code Snippet (Query) for Submit Button

Figure # This next.js code is the upload button.

```

<Modal isOpen={isMenuOpen} onClose={() => setIsMenuOpen(false)}>
  <h2 className="text-xl font-semibold text-smccprimary mb-4">Details</h2>
  <div className="flex flex-col gap-7 p-3 bg-white rounded-lg">
    {comments.length > 0 ? (
      comments.map((comment, index) => (
        <div key={index} className="flex flex-col gap-3">
          <div className="flex justify-between">
            <div className="flex gap-2">
              <ChevronDown
                className="cursor-pointer"
                onClick={() => toggleComment(index)}
              />
              <p className="font-semibold text-smccprimary">
                {comment.name}
              </p>
            </div>
            {comment.position ? (
              comment.approved ? (
                <span className="text-green-500 flex items-center">
                  <CircleCheck className="mr-1" /> Approved
                </span>
              ) : (
                <span className="text-red-500 flex items-center">
                  <CircleXIcon className="mr-1" /> Not Approved
                </span>
              )
            ) : null}
          </div>
          <Accordion isCommentOpen={openCommentIndex === index}>
            <div className="p1-3 border border-gray-300 rounded-lg text-black bg-white space-y-2 py-2">
              {comment.comment}
            </div>
          </Accordion>
        </div>
      ))
    ) : (
      <p>No comments found.</p>
    )
  }
</div>

```

```

<button
  className="w-full p-2 mt-5 text-white bg-red-600 hover:bg-red-700 rounded-lg"
  onClick={handleDelete}
>
  Delete
</button>

```

Figure #. Code Snippet for Comments for Panel and Advisers

Figure # This next.js code is for the panel comment and adviser comment. The panel and adviser comments will show there and identify who comments on the file. The button is for deleting if the student uploads a document so he/she can delete it.

```

16 // Check if there is an existing pending request for the user
17 $checkRequestQuery = "SELECT * FROM requests WHERE user_id = ? AND status = 'Pending'";
18
19 $stmtCheck = $connection->prepare($checkRequestQuery);
20 $stmtCheck->bind_param("i", $session_id);
21 $stmtCheck->execute();
22 $resultCheck = $stmtCheck->get_result();
23
24 if ($resultCheck->num_rows > 0) {
25     // If there is an existing pending request, throw an exception
26     throw new Exception('You have an existing pending request.');
```


```

27 }
28
29 // Insert the new request into the requests table
30 $insertQuery = "INSERT INTO requests (`user_id`, `course`, `date_requested`) VALUES(?, ?, ?)";
31 $stmtInsert = $connection->prepare($insertQuery);
32 $stmtInsert->bind_param("iss", $session_id, $course, $date_requested);
33 $stmtInsert->execute();
34
35 $lastInsertedId = $connection->insert_id; // Get the last inserted request_id
36
37 // Insert into clearance table
38 $insertQuery = "INSERT INTO clearance (`request_id`) VALUES(?)";
39 $stmtInsert = $connection->prepare($insertQuery);
40 $stmtInsert->bind_param("i", $lastInsertedId);
41 $stmtInsert->execute();
42
43 // Insert selected documents into the requested_documents table
44 if (!empty($selectedDocs)) {
45     $insertDocQuery = "INSERT INTO requested_documents (`request_id`, `document_id`) VALUES (?, ?)";
46     $stmtDocInsert = $connection->prepare($insertDocQuery);
47
48     // Loop through the selectedDocs array and insert each document_id
49     foreach ($selectedDocs as $document_id) {
50         $stmtDocInsert->bind_param("ii", $lastInsertedId, $document_id); // request_id and document_id
51         $stmtDocInsert->execute(); // Execute the insert query for each document
52     }
53 }
54
55 // Commit the transaction
56 $connection->commit();
57

```

Figure #. Code Snippet (Query) for Application Form

Figure # this PHP code shows saving on multiple tables, It will first save the request then after it will create a clearance record using the id generated from request table and after all that it will insert all requested documents.



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THESIS ROUTING SYSTEM

Panel Login

ID Number

Password

Login

Figure #. Login Page - Student

Figure # This UI is for Panel Login Input ID Number, And Password.

```

<div className="flex flex-col justify-center bg-white w-[90%] md:w-[60%] lg:w-[40%] rounded-lg mx-auto p-8">
  <h1 className="text-center font-semibold text-xl mb-8">Panel Login</h1>
  <TRSInput
    label={'ID Number'}
    placeholder={'Enter your ID Number'}
    value={idnumber}
    onChange={(e) => setIdnumber(e.target.value)}
  />
  <TRSInput
    label={'Password'}
    placeholder={'Enter your password'}
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    type="password"
  />
  <TRSButton
    label={` ${loginLoading ? 'Logging in...' : 'Login'} `}
    onClick={handleLogin}
  />
</div>

```

Figure #. Code Snippet for User

This React (Next.js) component creates a Student Login interface with a responsive, centered design using Tailwind CSS. It includes input fields for ID Number and Password, and a login button that updates dynamically.

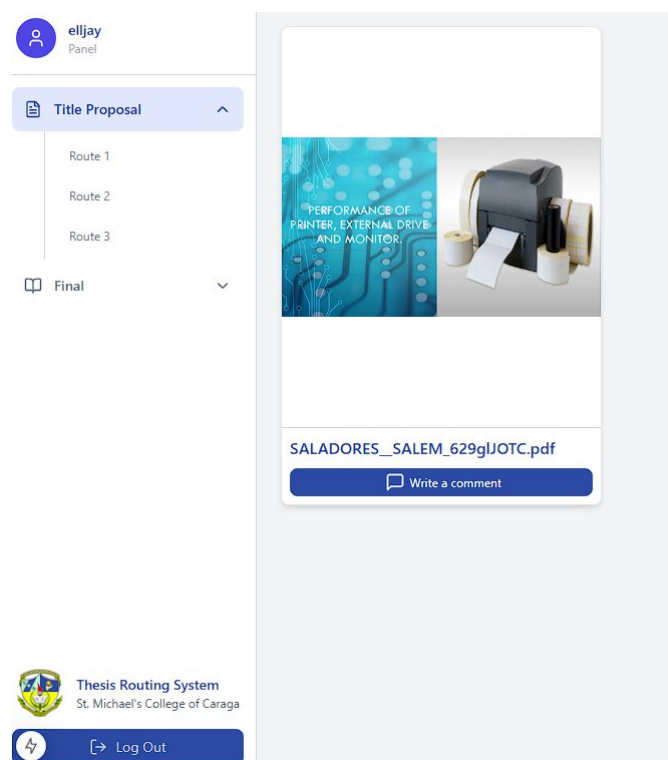


Figure #. Code Snippet (Query) for Documents

Figure # This UI is for the document that is submitted by the student and assigned to the panel.

```
<div className=" flex flex-col justify-center md:items-start">
  {loading ? (
    <div className="flex justify-center w-full items-center h-40">
      <div className="w-10 h-10 border-4 border-gray-300 border-t-blue-500 rounded-full animate-spin"></div>
    </div>
  ) : (
    <div className="w-full flex flex-wrap gap-4 justify-center md:justify-start">
      {theses.length > 0 ? (
        theses.map((thesis) => (
          <PanelAdFileCard
            key={thesis.id}
            role={'panel'}
            paperId={thesis.id}
            pdfUrl={thesis.fileUrl}
          />
        ))
      ) : (
        <p className="text-gray-500 text-center">No thesis papers found.</p>
      )
    }
  )
}</div>
```

Figure #. Code Snippet (Query) for Documents

Figure # This next.js code grabs all the files submitted by the student.

Thesis Comments

✓ Approve Paper

Group Number: 7

Project Title:

Submitted On: 2025-03-23

CHAMZEE

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into...

Write your comment here...

Submit

Figure # Comment for Panel

Figure # This UI is for the comments for the Panel and then the submit button if his done. The approve button is if the panel is done commenting then he can approve the file.


```

<div className="p-4 border-t border-gray-300 flex-shrink-0 bg-white ">
  <form
    onSubmit={handleCommentSubmit}
    className="flex flex-col gap-3"
  >
    <textarea
      value={comment}
      onChange={(e) => setComment(e.target.value)}
      placeholder="Write your comment here..."
      className="p-2 border rounded-lg bg-white text-black resize-none max-h-32"
      rows={3}
      required
    />
    <button
      type="submit"
      disabled={isSubmitting}
      className="w-full p-2 bg-smccprimary hover:bg-blue-700 text-white rounded-lg flex items-center justify-center"
    >
      {isSubmitting ? 'Submitting...' : 'Submit'}
    </button>
  </form>
</div>

```

Figure # Code Snippet (Query) for Comment of Panel

Figure # This React component creates a comment form with a styled text area and a dynamic submit button.

```

<Modal
  isOpen={!selectedComment}
  onClose={() => setSelectedComment(null)}
  className="w-full sm:w-[90%] md:w-[80%] lg:w-[70%] xl:w-[60%] max-w-4xl mx-auto"
>
  <div className="flex flex-col h-[70vh] max-h-[70vh]">
    <h3 className="text-lg font-bold mb-4 py-2 border-b border-gray-700">
      <span className="font-semibold">
        {selectedComment.position?.label ||
          selectedComment.name}
      </span>
    </h3>
    <div className="flex-grow overflow-y-auto px-2 py-4">
      <p className="whitespace-pre-wrap break-words text-base leading-relaxed">
        {selectedComment.comment}
      </p>
    </div>
    <div className="mt-4 pt-2 border-t border-gray-700">
      <button
        onClick={() => setSelectedComment(null)}
        className="w-full p-3 bg-blue-500 hover:bg-blue-600 text-white rounded-lg
          transition-colors duration-300 ease-in-out"
      >
        Close
      </button>
    </div>
  </div>
</Modal>

```

Figure # Comment

Figure # This code is for maximizing the comments of the panel and adviser.

```

<div className="flex justify-between items-center p-4 border-b border-gray-700 flex-shrink-0">
  <h2 className="text-xl font-semibold text-smccprimary">
    Thesis Comments
  </h2>

  {role !== 'adviser' && (
    <button
      className={`
        flex items-center justify-center gap-2 py-2 px-3 rounded-lg transition-colors duration-300
        ease-in-out
        ${
          isApproved
            ? 'bg-green-600 hover:bg-green-500 text-white'
            : 'bg-gray-200 hover:bg-gray-300 text-gray-800'
        }
      `}
      onClick={handleApproveStatus}
    >
      {isApproved ? <Check size={16} /> : <Check size={16} />}
      <span>{isApproved ? 'Paper Approved' : 'Approve Paper'}</span>
    </button>
  )}
</div>

```

Figure # Comment

Figure # This code is for approving the file if the panel is done commenting.



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THESIS ROUTING SYSTEM

Adviser Login

ID Number

Password

Login

Figure #. Login Page - Adviser

Figure # This UI is for Adviser Login Input ID Number, And Password

```

<div className="flex flex-col justify-center bg-white w-[90%] md:w-[60%] lg:w-[40%] rounded-lg mx-auto p-8">
  <h1 className="text-center font-semibold text-xl mb-8">
    Adviser Login
  </h1>
  <TRSIInput
    label={'ID Number'}
    placeholder={'Enter your ID Number'}
    value={idnumber}
    onChange={(e) => setIdnumber(e.target.value)}
  />
  <TRSIInput
    label={'Password'}
    placeholder={'Enter your password'}
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    type="password"
  />
  <TRSButton
    label={` ${loginLoading ? 'Logging in...' : 'Login'} `}
    onClick={handleLogin}
  />
</div>

```

Figure #. Code Snippet for Adviser

Figure # The code is a React-based login form for advisers, featuring a styled container, a heading, input fields for ID number and password, and a login button. It includes state management for user input and a dynamic button label that change's based on the login process.

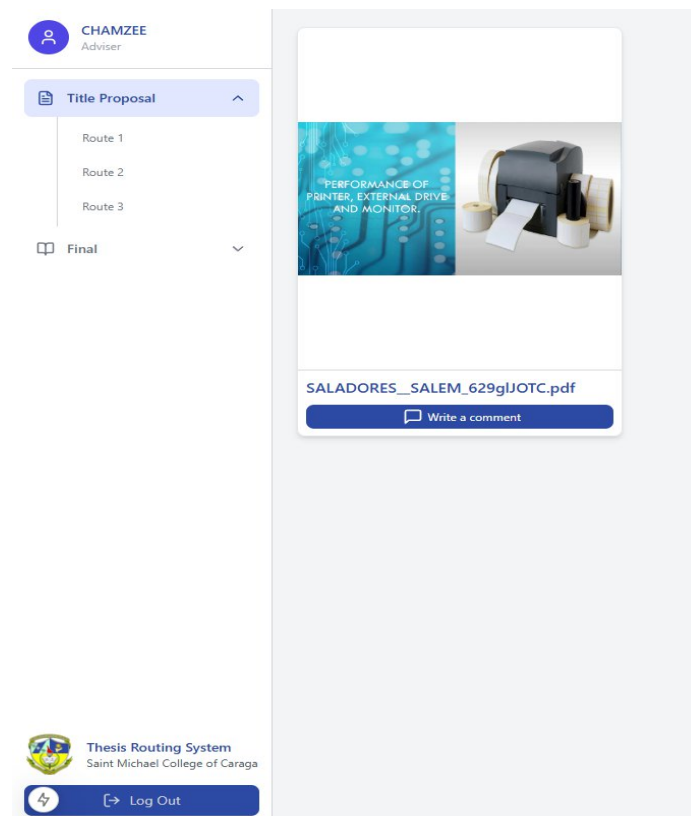


Figure #. Document Submitted

Figure # The adviser receives the students' submitted documents, reviews them, writes comments, and the students and panels can view the feedback on their side.

```
<div className=" flex flex-col justify-center md:items-start">
  {loading ? (
    <div className="flex justify-center w-full items-center h-40">
      <div className="w-10 h-10 border-4 border-gray-300 border-t-blue-500 rounded-full animate-spin"></div>
    </div>
  ) : (
    <div className="w-full flex flex-wrap gap-4 justify-center md:justify-start">
      {theses.length > 0 ? (
        theses.map((thesis) => (
          <PanelAdFileCard
            key={thesis.id}
            role={'adviser'}
            paperId={thesis.id}
            pdfUrl={thesis.fileUrl}
          />
        ))
      ) : (
        <p className="text-gray-500 text-center">No thesis papers found.</p>
      )}
    </div>
  )}
</div>
```

Figure #. Code Snippet for Managing and Displaying Thesis Papers

Figure # This code is managing and displaying a list of thesis papers for an adviser, showing a loading spinner while fetching data, rendering thesis files if available, and displaying a message if no papers are found.

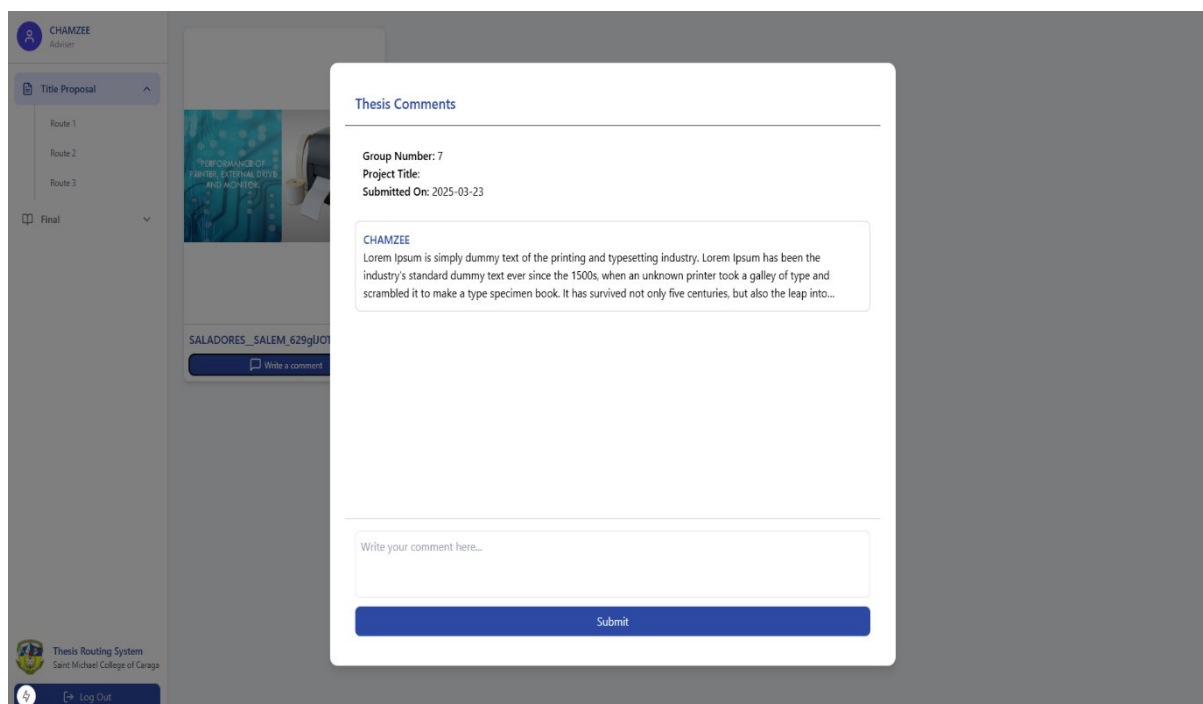



Figure #. for Adviser Comment

Figure # The adviser reviews and provides feedback on a submitted thesis. It includes thesis details (Group Number, Project Title, and Submission Date), adviser comments, and a

text box for adding new comments with a submit button.



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THESIS ROUTING SYSTEM

Admin Login

Email Address

Password

Login

Figure #. Login Page - Admin

Figure # This UI is for Admin Login Input Email Address, And Password

```

<div className="flex flex-col justify-center bg-white w-[90%] md:w-[60%] lg:w-[40%] rounded-lg mx-auto p-8">
  <h1 className="text-center font-semibold text-xl mb-8">Admin Login</h1>
  <TRSInput
    label={'Email Address'}
    placeholder={'Enter your email address'}
    value={email}
    onChange={(e) => setEmail(e.target.value)}
  />
  <TRSInput
    label={'Password'}
    placeholder={'Enter your password'}
    value={password}
    onChange={(e) => setPassword(e.target.value)}
    type="password"
  />
  <TRSButton
    label={` ${loginLoading ? 'Logging in...' : 'Login'} `}
    onClick={handleLogin}
  />
</div>
</div>

```

Figure #. Code Snippet for Admin

Figure # This code defines a login form for an Admin, including a heading, input fields for email and password, and a button.

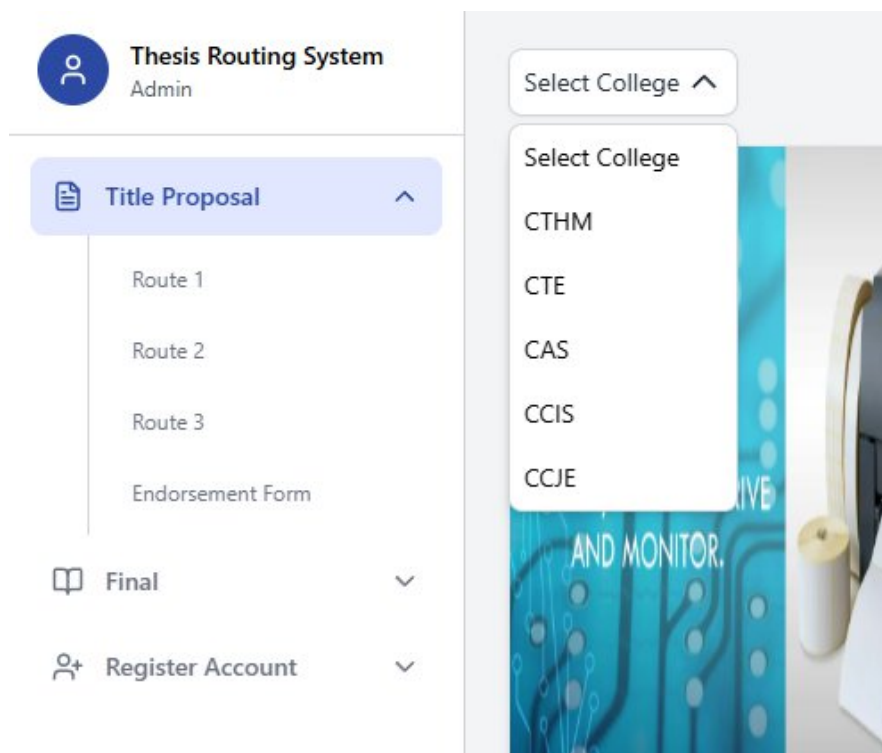


Figure #. Course Selection

Figure # The admin can select different colleges from a dropdown menu to view students' submitted documents.

```
const Page = () => {
  const { theses, loading, getAllThesis, filterPapers } = useThesisStore((state) => state);
  const [selectedCollege, setSelectedCollege] = useState('');

  const getThesisPapers = useCallback(async () => {
    selectedCollege.label === 'Select College' || selectedCollege === '' ?
      await getAllThesis()
      :
      await filterPapers(selectedCollege.label);
  }, [getAllThesis, filterPapers, selectedCollege]);

  const colleges = [
    { value: 'Select College', label: 'Select College' },
    { value: 'CTHM', label: 'CTHM' },
    { value: 'CTE', label: 'CTE' },
    { value: 'CAS', label: 'CAS' },
    { value: 'CCIS', label: 'CCIS' },
    { value: 'CCJE', label: 'CCJE' },
  ];

  useEffect(() => {
    getThesisPapers();
  }, [getThesisPapers, selectedCollege]);

  return (
    <div className="flex flex-col justify-center md:items-start">
      <TRSDropdown
        options={colleges}
        onSelect={setSelectedCollege}
        innerLabel={'Select College'}
      />
    </div>
  );
}
```

Figure #. Code Snippet for Course Selection

Figure # This Code allows an Admin to select a college from a dropdown menu. It retrieves thesis papers based on the selected college. If no specific college is selected, it fetches all thesis papers; otherwise, it filters them according to the chosen college. The dropdown displays a list of college options and updates the selection when the Admin makes a choice.

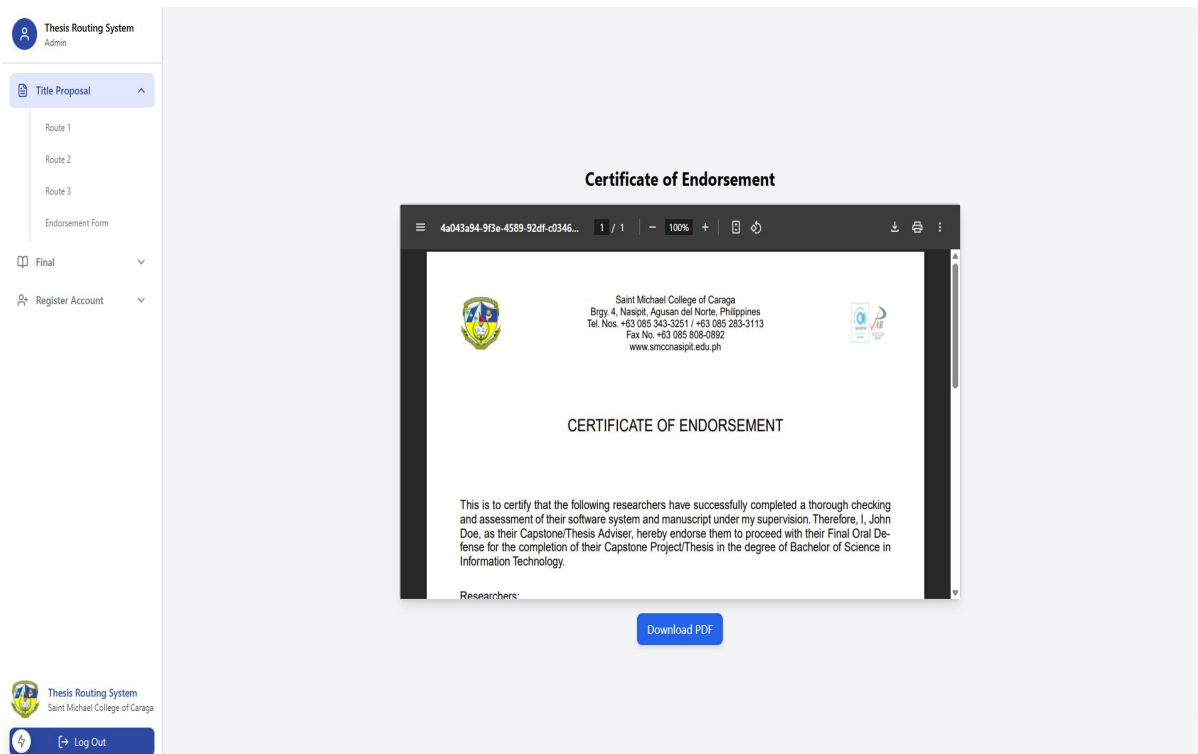


Figure #. Endorsement Form

Figure # This is a Certificate of Endorsement, which students receive after successfully completing all the required routes in the system. The admin has the ability to download the certificate as a PDF file once the process is completed.

```

const CertificateOfEndorsement = ({ date = '', adviserName = 'Unknown Adviser', studentNames = [] }) => {

  return (
    <Document>
      <Page size="A4" style={styles.page}>
        { /* Header with Left and Right Logos */ }
        <View style={styles.header}>
          <Image src={leftLogo} style={styles.logo} />

          <View style={styles.headerTextContainer}>
            <Text style={styles.headerText}>Saint Michael College of Caraga</Text>
            <Text style={styles.headerText}>Brgy. 4, Nasipit, Agusan del Norte, Philippines</Text>
            <Text style={styles.headerText}>Tel. Nos. +63 085 343-3251 / +63 085 283-3113</Text>
            <Text style={styles.headerText}>Fax No. +63 085 808-0892</Text>
            <Text style={styles.headerText}>www.smccnasipit.edu.ph</Text>
          </View>

          <Image src={rightLogo} style={styles.logo} />
        </View>

        <Text style={styles.title}>CERTIFICATE OF ENDORSEMENT</Text>

        <View style={styles.section}>
          <Text>
            This is to certify that the following researchers have successfully
            completed a thorough checking and assessment of their software system
            and manuscript under my supervision. Therefore, I, {adviserName}, as their
            Capstone/Thesis Adviser, hereby endorse them to proceed with their
            Final Oral Defense for the completion of their Capstone Project/Thesis
            in the degree of Bachelor of Science in Information Technology.
          </Text>
        </View>
        <View style={[styles.section, { flexDirection: "column", alignItems: "flex-start" }]}>
          <Text>Researchers:</Text>
          <View style={{ marginTop: 10 }}>
            {studentNames.length > 0 ? (
              studentNames.map((name, index) => (
                <Text key={index} style={{ marginBottom: 5 }}>
                  {index + 1}. {name}
                </Text>
              ))
            ) : (
              <Text>No researchers found.</Text>
            )}
          </View>
        </View>
      </Page>
    </Document>
  )
}

```

```

<View style={styles.section}>
  <Text>
    Their project/thesis has met the required standards and criteria set
    forth by the College of Computing and Information Sciences, and I am
    confident in the quality and academic rigor of their work.
  </Text>
</View>

<View style={styles.signatureSection}>
  <View style={{ marginBottom: 10 }}>
    <Text>Endorsed by:</Text>
    <Text
      style={{
        borderBottomWidth: 1,
        borderBottomColor: "black",
        textAlign: "center",
        marginTop: 7,
        width: "auto", // Allow dynamic width
        minWidth: 80, // Set a minimum width to avoid very short underlines
        alignSelf: "flex-start", // Align dynamically
      }}
    >
      {adviserName}
    </Text>
  </View>

  <Text>Capstone Adviser</Text>
  <Text>{date}</Text>
</View>

<View style={styles.signature}>
  <Text>Approved by:</Text>
  <Text>MARLON JUHN M. TIMOGAN, MIT</Text>
  <Text>Capstone Project/Thesis Instructor</Text>
  <Text>{date}</Text>
</View>
</Page>
</Document>
);
};

export default CertificateOfEndorsement;

```

Figure #. Code Snippet for Endorsement Form

Figure # The code generates a Certificate of Endorsement for students who complete the thesis process. It includes the college name, contact details, student names, adviser's endorsement, and approval by the Capstone Instructor. The document follows an A4 format

with a header, sections for verification, and signatures. It dynamically displays student names and ensures proper authorization.

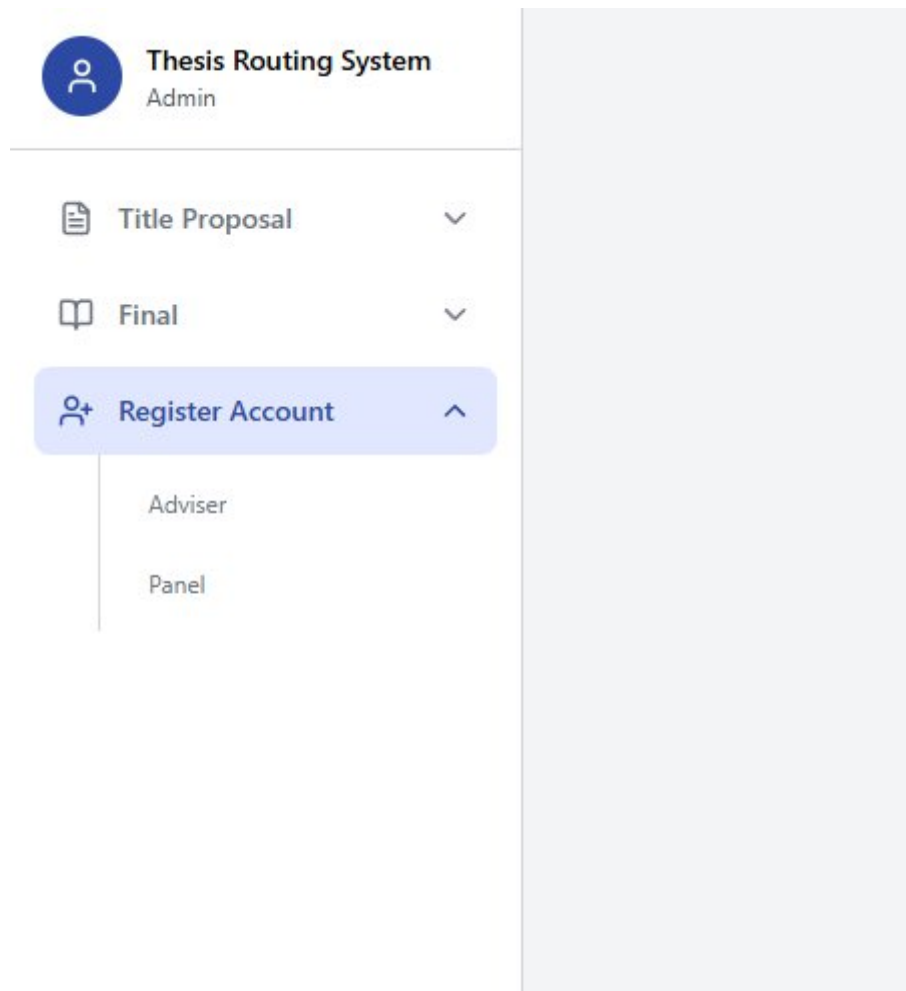


Figure #. Register Accounts

Figure # The Register Account section allows the admin to create accounts for advisers and panel members.

The screenshot displays the 'Register as Adviser' form within the Thesis Routing System Admin interface. The left sidebar contains navigation links: 'Title Proposal', 'Final', 'Register Account' (highlighted), 'Adviser', and 'Panel'. The main content area features a central form with the following fields: 'Employee ID' (with placeholder 'Enter your ID Number'), 'Password' (with placeholder 'Enter your password'), 'Confirm Password' (with placeholder 'Confirm your password'), 'Complete Name' (with placeholder 'Enter your Complete Name'), and 'College' (a dropdown menu with 'Select an option'). A blue 'Register Adviser' button is positioned at the bottom of the form. The footer includes the 'Thesis Routing System' logo, 'Saint Michael College of Caraga', and a 'Log Out' button.

Figure #. Adviser Registration

Figure # The Adviser Registration page allows the admin to create an adviser account by entering details such as Employee ID, Password, Confirm Password, Full Name, and the College they are affiliated with, which oversees their assigned courses.


```

<div className="flex items-center justify-center min-h-screen p-4">
  <div className="bg-white shadow-md rounded-lg w-full max-w-md p-8">
    <h1 className="text-lg font-semibold text-center text-smccprimary mb-6">
      Register as Adviser
    </h1>

    <div className="space-y-4">
      <TRSInput
        label="Employee ID"
        placeholder="Enter your ID Number"
        value={idnumber}
        onChange={(e) => setIdnumber(e.target.value)}
      />
      <TRSInput
        label="Password"
        placeholder="Enter your password"
        value={password}
        onChange={(e) => setPassword(e.target.value)}
        type="password"
      />
      <TRSInput
        label="Confirm Password"
        placeholder="Confirm your password"
        value={confirmPassword}
        onChange={(e) => setConfirmPassword(e.target.value)}
        type="password"
      />
      <TRSInput
        label="Complete Name"
        placeholder="Enter your Complete Name"
        value={name}
        onChange={(e) => setName(e.target.value)}
      />
      <TRSDropdown
        label="College"
        options={departmentOptions}
        onSelect={setDepartment}
        value={department} // Ensure the value is controlled
      />
    </div>

    <div className="mt-6 text-center">
      <TRSButton
        label={` ${registerLoading ? 'Loading...' : 'Register Adviser'} `}
        onClick={handleRegister}
        className="w-full bg-smccprimary text-white py-2 rounded-lg hover:bg-blue-700 transition hover:shadow-lg"
      />
    </div>
  </div>
</div>

```

Figure #. Code Snippet for Adviser Registration

Figure # The code represents a form for Registering an adviser. It includes input fields for Employee ID, Password, Confirm Password, Full Name, and a dropdown for selecting the College. The form uses state management to handle input changes and includes a submit button that dynamically updates based on the registration process.

The screenshot displays the 'Thesis Routing System' Admin interface. On the left, a sidebar menu includes 'Title Proposal', 'Final', 'Register Account' (highlighted), 'Adviser', and 'Panel'. The main content area features a 'Register as Panel' form with the following fields: 'Employee ID' (text input), 'Password' (text input), 'Confirm Password' (text input), 'Complete Name' (text input), 'College' (dropdown menu), and 'Position' (dropdown menu). A blue 'Register Panel' button is located at the bottom of the form. The footer of the page shows the 'Thesis Routing System' logo and a 'Log Out' button.

Figure #. Panel Registration

Figure # The admin can register a panel member by providing the Employee ID, Password, Confirm Password, Complete Name, and selecting the College and position from dropdown menus. The registration is completed by clicking the Register Panel button.


```

<div className="flex items-center justify-center min-h-screen p-4">
  <div className="bg-white shadow-md rounded-lg w-full max-w-md p-8">
    <h1 className="text-lg font-semibold text-center text-smccprimary mb-6">
      Register as Panel
    </h1>
    <TRSInput
      label="Employee ID"
      placeholder="Enter your ID Number"
      value={idnumber}
      onChange={(e) => setIdnumber(e.target.value)}
    </>
    <TRSInput
      label="Password"
      placeholder="Enter your password"
      value={password}
      onChange={(e) => setPassword(e.target.value)}
      type="password"
    </>
    <TRSInput
      label="Confirm Password"
      placeholder="Confirm your password"
      value={confirmPassword}
      onChange={(e) => setConfirmPassword(e.target.value)}
      type="password"
    </>
    <TRSInput
      label="Complete Name"
      placeholder="Enter your Complete Name"
      value={name}
      onChange={(e) => setName(e.target.value)}
    </>
    <TRSDropdown
      label="College"
      options={departmentOptions}
      onSelect={setDepartment}
      value={department}
    </>{' '}
    </* Ensure the value is controlled */>
    <TRSDropdown
      label="Position"
      options={positionOptions}
      onSelect={setPosition}
      value={position}
    </>{' '}
    </* Ensure the value is controlled */>
    <div className="mt-6 text-center">
      <TRSButton
        label={`${registerLoading ? 'Loading...' : 'Register Panel'}`}
        onClick={handleRegister}

```

Figure #. Code Snippet for Panel Registration

Figure # This code is a Panel Registration Form. It includes input fields for Employee ID, Password, Confirm Password, Complete Name, College, and Position. The form dynamically updates the state when values are entered. A register button is provided to handle the panel registration process, with a loading state to indicate progress.

CHAPTER V

SUMMARY, CONCLUSION, AND RECOMMENDATION

SUMMARY OF FINDINGS

Based on the testing process conducted, the Thesis Routing System for Saint Michael College of Caraga was evaluated for its accuracy, functionality, and overall performance using a survey instrument adapted from the ISO 25010 Software Product Quality Standards. The evaluation focused on three major aspects: functional suitability, performance efficiency, and usability.

The results of the evaluation affirm that the system is "Very Functional" with a mean score of 3.25. This suggests that it effectively satisfies the specific tasks and objectives required for its implementation. It also scored well in functional completeness, correctness and appropriateness to ensure that users are given precise results and a smooth operation of the system.

In terms of performance efficiency, the system was rated as "Very Efficient" with a mean score of 3.25. It performed well regarding time behavior and resource use, showing its ability to respond quickly to requests while using system resources effectively. Capacity management could be improved to maintain optimal performance levels during periods of heavy usage.

Overall, the system was rated "Strongly Acceptable" with a grand mean of 3.50. which means that it is highly acceptable to users and performs well in meeting their needs in terms of functionality, performance efficiency, and usability. The system shows strong

performance in major areas like functional completeness, time behavior, resource usage, and ease of use, and also offers a user-friendly experience.

CONCLUSION

In conclusion, the system has excellent functional suitability with its attributes accomplishing the assigned tasks and user goals. The system gives proper results, accomplishes all needed functions, and supports task realization efficiently. But there is a scope to extend its functional completeness and suitability in order to more closely align itself with user needs.

RECOMMENDATION

To further enhance the system's effectiveness and overall user experience, the following recommendations are suggested:

- 1. Improve Missing Functionalities:** Implementing a list format for viewing documents and adding features like page numbers and comment location will support better navigation and ease of use, making the system more efficient for users when reviewing documents.
- 2. Enhance Panel Connection:** Allowing direct connections on the paper/file instead of relying solely on the "commenting" feature will support clearer interaction between the panel and the paper, improving user understanding and reducing confusion.
- 3. Enhance Department Separation:** Separating the CTHM and CBM departments and adding announcements will support better organization, ensuring users can easily navigate the system and access relevant information for each department, enhancing overall usability.

By implementing these recommendations, the system can maximize its efficiency, usability, and overall user experience, making the operations smoother, interactions clearer, and organization improved. This will enhance the sustainability and long-term effectiveness of the system, allowing it to be more reliable and user-friendly to all stakeholders.

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APPENDICES

A. System Source Code

B. User's Manual

C. Letter of Permission

**Saint Michael College of Caraga**
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Tel. Nos. +63 085 343-3251 / +63 085 283-3113 Fax No. +63 085 808-0892
www.smccnasipit.edu.ph



December 19, 2024

Mr. Kenneth Ian B. Barrera, MA
Research Head
Saint Michael College of Caraga
Nasipit, Agusan del Norte, 8602

Dear Sir,

Greetings!


We hope this letter finds you well. We are BSIT 3 students of Saint Michael College of Caraga, currently working on our research study, "Web-based Thesis Routing System for Saint Michael College of Caraga."

We are writing to formally request your permission and collaboration for the development and implementation of our system. Our study aims to create a web-based system to streamline and digitalize the thesis submission and evaluation process, providing students, faculty, and administrators with an efficient and user-friendly platform.


We believe this project will enhance the management of thesis-related activities within your organization and align with the institution's mission of embracing innovation through practical and impactful research. Additionally, the system's outcomes could serve as a foundation for future academic solutions, setting a benchmark for other institutions seeking to improve their academic processes. Rest assured that the data we will gather will remain absolutely confidential and to be used in academic purpose only.

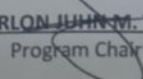
Thank you for considering our request. We are eager to collaborate and discuss this project further at your convenience. We look forward to your positive response.

Sincerely,



ELL JAY LACARAN
Research Leader


Approved by:


REA MIE A. OMAS-AS
Adviser

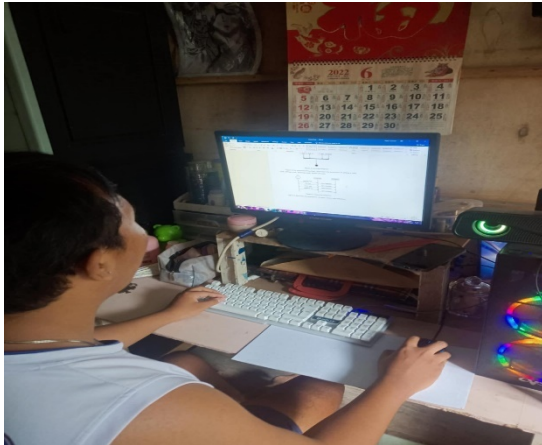

MARLON JUHAN M. TIMOGAN, MIT
Program Chair

Member:



 info@smccnasipit.edu.ph

D. Documented Undertaking



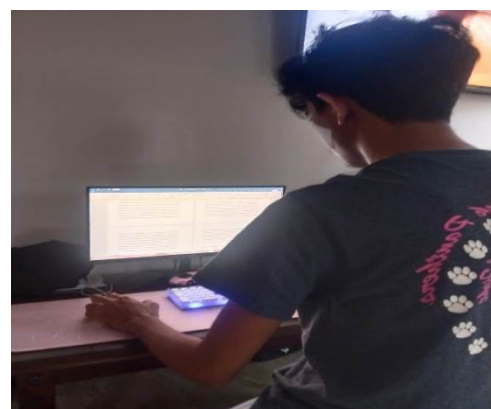
Creating a detailed document that encompasses



Chapters 1 through 3. Creating a comprehensive Gantt chart



During Title Hearing



Creating Document for Chapter 1 - 3



This moment marks the significant occasion when we presented our title proposal

E. Certificate of Implementation

F. Research Locale

SAINT MICHAEL COLLEGE OF CARAGA



G. Curriculum Vitae

Name : Ell jay Lacaran

Address : D-3 Camagong Nasipit, ADN

Contact No. : 09453391491

Email : Elljay_lacaran@smccnasipit.edu.ph



Personal Details

Date of Birth : July 21, 2003

Gender : Male

Civil Status : Single

Age : 21

Citizenship : Filipino

Educational Background

Elementary : Camagong Elementary School

Junior High School : Saint Michael College of Caraga

Junior High School : Saint Michael College of Caraga

Skills

- Video Editing
- Photo Editing

- Programming

Membership School Organization

- N/A

G. Curriculum Vitae

Name : Jake Castillon

Address : Address Poblacion 4, Nasipit, ADN

Contact No. : 09275334409

Email : jake_castillon@smccnasipit.edu.ph



Personal Details

Date of Birth : February 4, 2002

Gender : Male

Civil Status : Single

Age : 22

Citizenship : Filipino

Educational Background

Elementary : Siquijor Elementary School

Junior High School : Siquijor National High School

Junior High School : Toledo National High School

Skills

- Graphic Design

Membership School Organization

- N/A

G. Curriculum Vitae

Name : Jenessa Suazo Oca
Address : Gumabon Magsaysay Misamis Oriental
Contact No. : 09063951734
Email : jenessa_ocay@smccnasipit.edu.ph



Personal Details

Date of Birth : September 30,2002
Gender : Female
Civil Status : Single
Age : 22
Citizenship : Filipino

Educational Background

Elementary : Gumabon Elementary school
Junior High School : Consuelo National Highschool
Junior High School : Consuelo National Highschool

Skills

- Basic web Development

Membership School Organization

- N/A

G. Curriculum Vitae

Name : John Lester Saladores

Address : District 6 Punta Nasipit ADN

Contact No. : 09944517839

Email : johnlester_saladores@smccnasipit.edu.ph



Personal Details

Date of Birth : September 14 2003

Gender : Male

Civil Status : Single

Age : 21

Citizenship : Filipino

Educational Background

Elementary : Punta Elementary School

Junior High School : Saint Michael College of Caraga

Junior High School : Saint Michael College of Caraga

Skills

- Digital Art

Membership School Organization

- N/A

G. Curriculum Vitae

Name : Rylvin Celnar D. Tiempo

Address : Culit, Nasipit Agusan Del Norte

Contact No. : 09758026676

Email : rylvincelnar_tiempo@smccnasipit.edu.ph



Personal Details

Date of Birth : December 07, 2002

Gender : Male

Civil Status : Single

Age : 22

Citizenship : Filipino

Educational Background

Elementary : Culit elementary school

Junior High School : Culit National High school

Junior High School : Culit National high school

Skills

- Microsoft Office Suite

Membership School Organization

- N/A