



OMNIHUB

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INTRODUCTION

1. Nowadays people use many different websites for study, work, shopping, news, and entertainment.
2. Switching between many websites wastes a lot of time.
3. OMNIHUB is an **all-in-one website** that combines many useful platforms in one place.
4. In short, OMNIHUB connects everything users need on the internet in one platform.



BACKGROUND

1. The internet has become an important part of daily life.
2. People use different websites for different purposes like education, communication, shopping, and entertainment.
3. Each service is usually available on a **separate platform**, which makes users switch again and again.
4. This creates problems like **time wastage**, confusion, and reduced productivity.



PROBLEM STATEMENT

1. Users depend on many different websites for different tasks.
2. There is no single platform that provides access to all important services at one place.
3. Switching between multiple websites is time-consuming and confusing.
4. Users often forget website links or waste time searching again.
5. **OMNIHUB** is proposed to solve this problem by integrating multiple websites into one hub



OBJECTIVES

- To create a single platform that combines multiple useful websites.
- To make web browsing simple and user-friendly.
- To give professionals quick access to work and productivity tools.
- To organize websites into different categories.



SCOPE OF THE PROJECT

1. The project includes the development of a web-based platform named OMNIHUB.
2. Users can easily open external websites through OMNIHUB.
3. It provides access to multiple categories of websites from a single dashboard.
4. OMNIHUB is designed to support scalability and improvement over time.



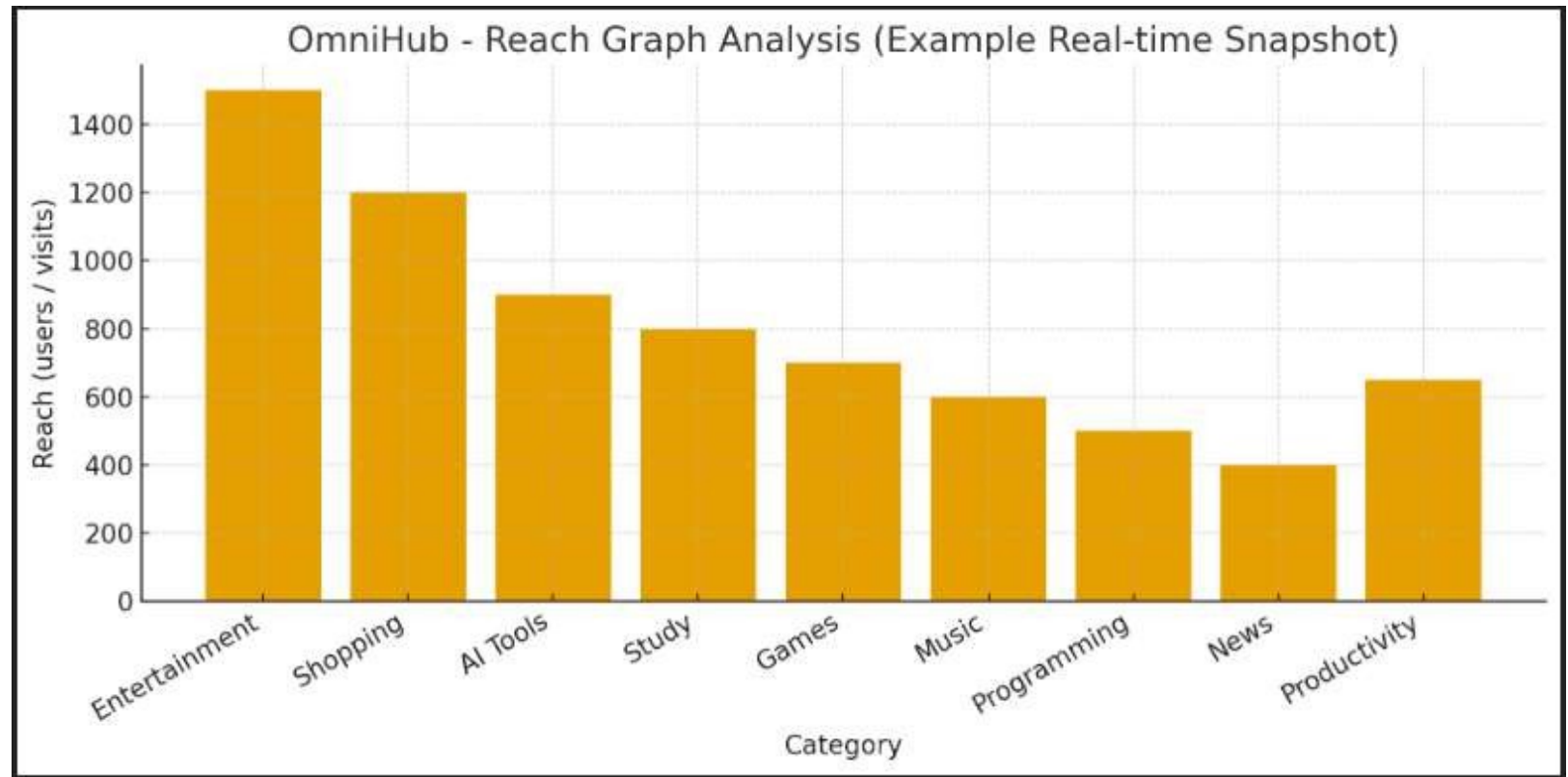
LITERATURE REVIEW

- Earlier systems like web portals and dashboards were developed to group different services in one place.
- These systems helped users access news, emails, tools, and learning platforms from a single interface.
- However, many existing platforms are complex or limited to only one field (like only education or only news).
- OMNIHUB overcomes this by offering an all-in-one, simple, and multi-purpose platform for different user needs.



RESEARCH GAP

1. Most existing systems are platform-specific and fail to generalize well to other social networks.
2. Traditional models cannot detect advanced AI-generated bots that imitate human behavior.
3. Lack of multilingual and cross-cultural datasets limits robust detection in diverse environments.
4. Many systems lack real-time adaptability and cannot update against evolving fake profile strategies.





EXISTING SYSTEM

1. Currently, users access different services through separate websites and apps.
2. Each platform works individually and is not connected to others.
3. Users must remember multiple links, usernames, and passwords.
4. Hence, the current system is inefficient and time-consuming.



LIMITATIONS OF EXISTING SYSTEMS

1. Users must visit multiple websites/apps for different services.
2. There is no single platform that contains everything in one place.
3. Users often forget important links or bookmarks.
4. Users often forget important links or bookmarks.

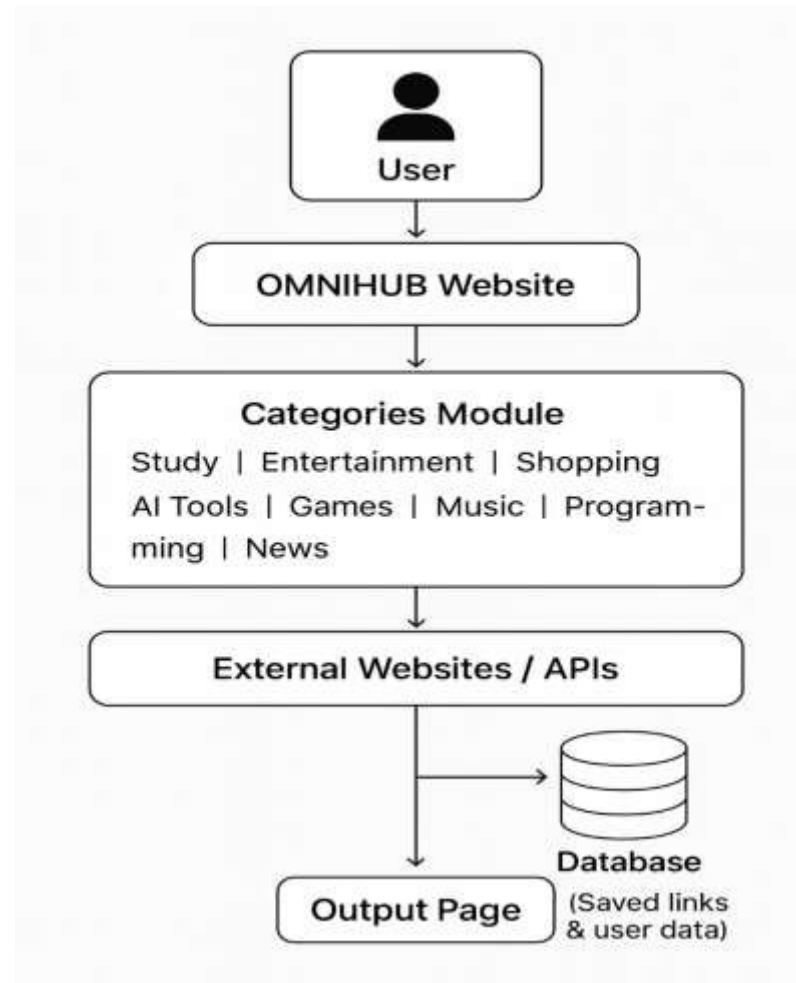


PROPOSED SYSTEM

- OMNIHUB will act as a single, centralized platform for multiple services.
- All important websites will be available in one organized dashboard.
- The system will have different categories like Study, Entertainment, Shopping, Tools, etc.
- OMNIHUB offers a better, faster, and more organized browsing experience.



SYSTEM ARCHITECTURE





METHODOLOGY

- Study what users usually search for daily (study, entertainment, tools, jobs, etc.)
- Collect only useful, trusted, and high-demand websites for each category
- Organize all links in a clean, category-based structure
- Test all links, performance, and responsiveness on different devices



FEATURE EXTRACTION

1. **Behavioral Features:** Tracks how users click, search, and navigate between different sections in OmniHub.
2. **Textual Features:** Includes all text like website names, categories, descriptions, and button labels used in OmniHub.
3. **Network Features:** Defines how OmniHub connects securely to external websites and works across different devices and browsers.
4. These combined features improve OmniHub's effectiveness by capturing multiple dimensions of user interaction, content structure, and network connectivity in one platform.



IMPLEMENTATION:

- Designed the user interface using HTML, CSS, and JavaScript for a clean and responsive layout
- Created different sections like Study, Jobs, Tools, Entertainment on the frontend
- Implemented interactive buttons and navigation for smooth user experience
- Organized all data (links & categories) in a structured format and Deployed the final website using Netlify for online access



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```
EXPLORER  ...  _/pages  header.html  DEPLOY.md  deploy-firebase.ps1  deploy-netlify.ps1  index.html _/src  PROJECT_REPORT.md  README.md  ...

PRAVAOMNIHUB (WORKSPACE)  New folder  OMNIHUB_PROJECT  omnihub  src  index.html  html  head  style  .topbar .btn-create-before

  New folder
  OMNIHUB_PROJECT
    omnihub
      src
        pages
          ai-tools.html
          categories.html
          contact.html
          entertainment.html
          games.html
          index.html
          logout.html
          music.html
          profile.html
          programming.htm
          shopping.html
          study.html
          tools.html
        utils
          api.js
          helpers.js
          _redirects
          index.html
          login.html
          firebase.json
          package-lock.json
          package.json
          PROJECT_REPORT.md
          README.md
          .gitignore
          deploy-firebase.ps1
          deploy-netlify.ps1
          DEPLOY.md
          netlify.toml
        OUTLINE
        TIMELINE

New folder > OMNIHUB_PROJECT > omnihub > src > index.html > html > head > style > .topbar .btn-create-before
2  <html lang="en" data-theme="light">
3  <head>
272 <style>
450   .card .media{width:100%;height:130px;border-radius:10px;overflow:hidden;background:linear-gradient(to right, #000, #fff);display:flex;align-items:center;justify-content:center}
451   .card img{width:100%;height:100%;object-fit:cover}
452
453   /* logout overlay */
454   #logoutOverlay{
455     position:fixed;inset:0;background:linear-gradient(to right, #000, #000);display:flex;align-items:center;justify-content:center;color:#fff;font-size:1.2em;opacity:0;pointer-events:none;transition:opacity .4s;z-index:9999;
456   }
457   #logoutOverlay .wrap{display:flex;flex-direction:column;align-items:center;gap:12px}
458   #logoutOverlay .wrap .spinner{font-size:34px;animation:spin 1s linear infinite}
459   @keyframes spin{to{transform:rotate(360deg)}}
460
461   /* Responsive tweaks */
462   @media(max-width:900px){
463     .sidebar{width:72px}
464     .main-wrap{margin-left:72px}
465     .carousel{height:220px}
466     .slide-content h2{font-size:20px}
467   }
468 </style>
469 </head>
470
471 <body>
472 <!-- Sidebar -->
473 <aside class="sidebar" aria-labelledby="sidebar">
474   <div>
475     <div class="brand">
476       <div class="logo"></div>
477       <div class="title">OMNIHUB</div>
478     </div>
479     <div class="sidebar-section">
480       <div class="sidebar-title">Platform</div>
481       <ul class="sidebar-menu">
482         <li><a class="active" href="/"><i class="fas fa-home"></i><span>Home</span></a></li>
483         <li><a href="categories.html"><i class="fas fa-th-large"></i><span>Categories</span></a></li>
484         <li><a href="about.html"><i class="fas fa-info-circle"></i><span>About</span></a></li>
485         <li><a href="contact.html"><i class="fas fa-envelope"></i><span>Contact</span></a></li>
486       </ul>
487     </div>
488   </div>
489 </body>
490 </html>
```



LIBRARIES USED

1. HTML5 – For structuring the web pages
2. CSS3 – For styling, layout, and responsiveness
3. JavaScript (ES6) – For interactivity and dynamic features
4. Font Awesome – For icons and visual elements
5. Google Fonts – For custom typography
6. Netlify – For website deployment and hosting



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OMNIHUB

ALL IN ONE WEBSITE

Your All-in-One Digital Hub

Access shopping, education, tools, entertainment,
news and more.

GET STARTED

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ALGORITHMS USED

- **Search Filtering Algorithm** – Matches user input with card titles and hides non-matching content in real time.
- **Category Matching Algorithm** – Displays resources based on selected categories (Study, Jobs, AI, Entertainment, etc.).
- **Routing Algorithm** – Loads different sections without refreshing the page (client-side routing).
- **Navigation Algorithm** – Handles sidebar and top-menu movement across pages.
- These algorithms help OmniHub in searching, filtering, routing, switching themes, managing users, and organizing content efficiently in a single platform.



```
app.py / BeautifulSoup
1400 def analyze():
1417     elif platform == 'twitter':
1418         profile_data = TwitterProfileExtractor.get_profile(username)
1419     else:
1420         return jsonify({"error": f"Platform '{platform}' not supported"})
1421
1422     if "error" in profile_data:
1423         return jsonify({"error": profile_data["error"]})
1424
1425     analysis = FakeProfileDetector.analyze_profile(profile_data)
1426
1427     if "error" in analysis:
1428         return jsonify({"error": analysis["error"]})
1429
1430     return jsonify({
1431         "profile": profile_data,
1432         "analysis": analysis
1433     })
1434
1435 except Exception as e:
1436     return jsonify({"error": f"Server error: {str(e)}"})
1437
1438
1439 if __name__ == '__main__':
1440     app.run(debug=True, host='0.0.0.0', port=5000)
```




APPLICATION UI & INTERFACE

- **Clean Dashboard** – Displays all main categories (Study, Jobs, AI Tools, Entertainment, Shopping, Music, Socials) in a card layout.
- **Search Bar** – Located at the top, allows users to quickly find any resource or category
- **Card-Based Design** – Each feature is shown as a clickable card with a title, short description, and OPEN button.
- **Minimal & Modern UI** – Uses dark theme, rounded cards, and clean fonts for better readability
- **Fast Interaction** – JavaScript provides instant search and hover effects for better user experience.



DEPLOYMENT

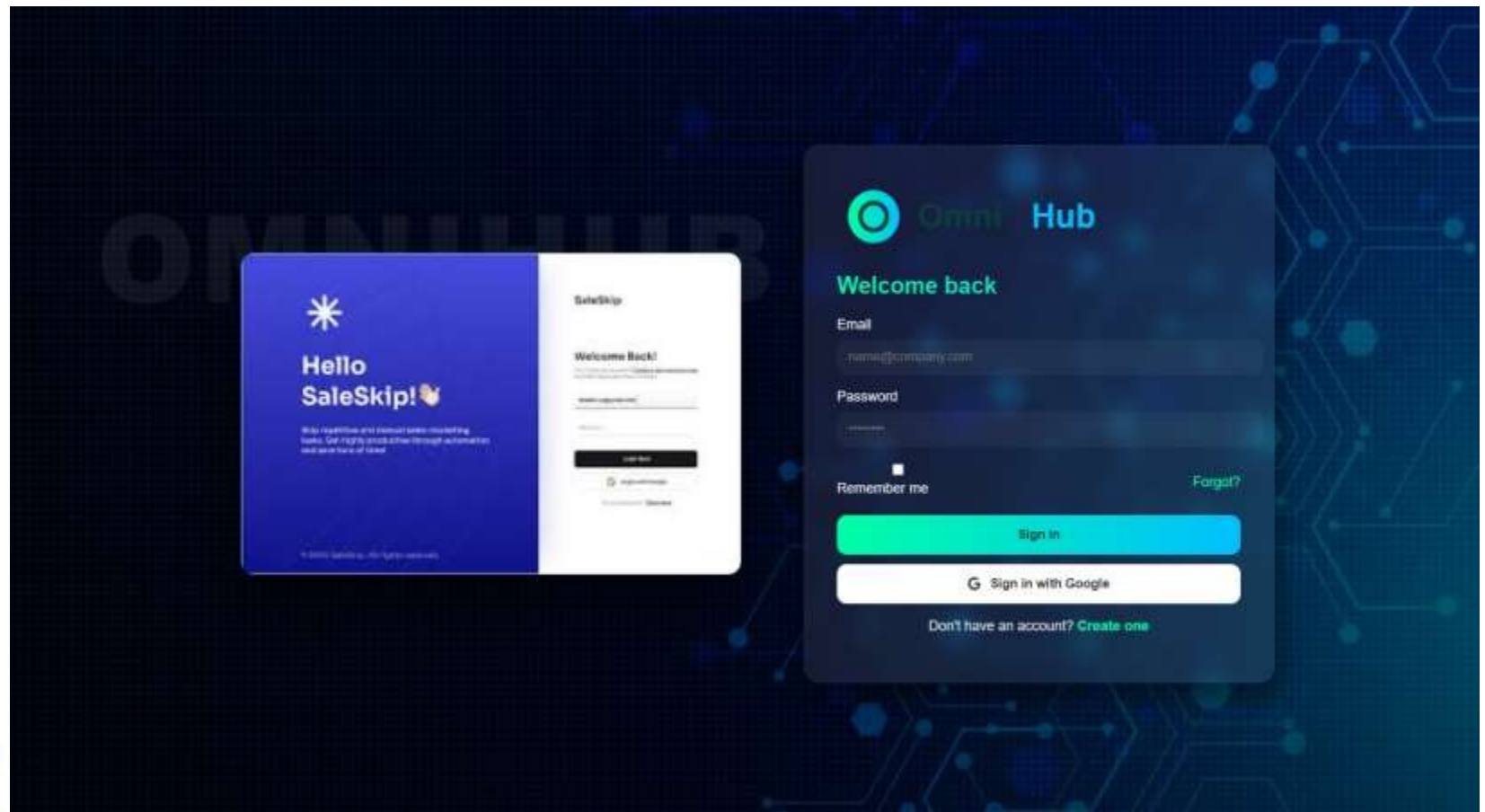
- Completed the final testing of the OmniHub website on local browser.
- Saved all required files (index.html, style.css, script.js) in one project folder
- Created a **Netlify account** for hosting the website online
- Uploaded the project folder through **Netlify Drop** / connected GitHub repository
- Netlify automatically generated a **live URL** for OmniHub



1. Build the weather web app using HTML, CSS, and JavaScript files.
2. Create a free account on [Netlify.com](https://netlify.com) and log in.
3. Upload your project folder or connect your GitHub repository for auto-deployment.
4. After deployment, Netlify generates a live .netlify.app link for public access.
5. We can change website name like how it want to be like I changed it into www.pcvomnihubjnn.netlify.app

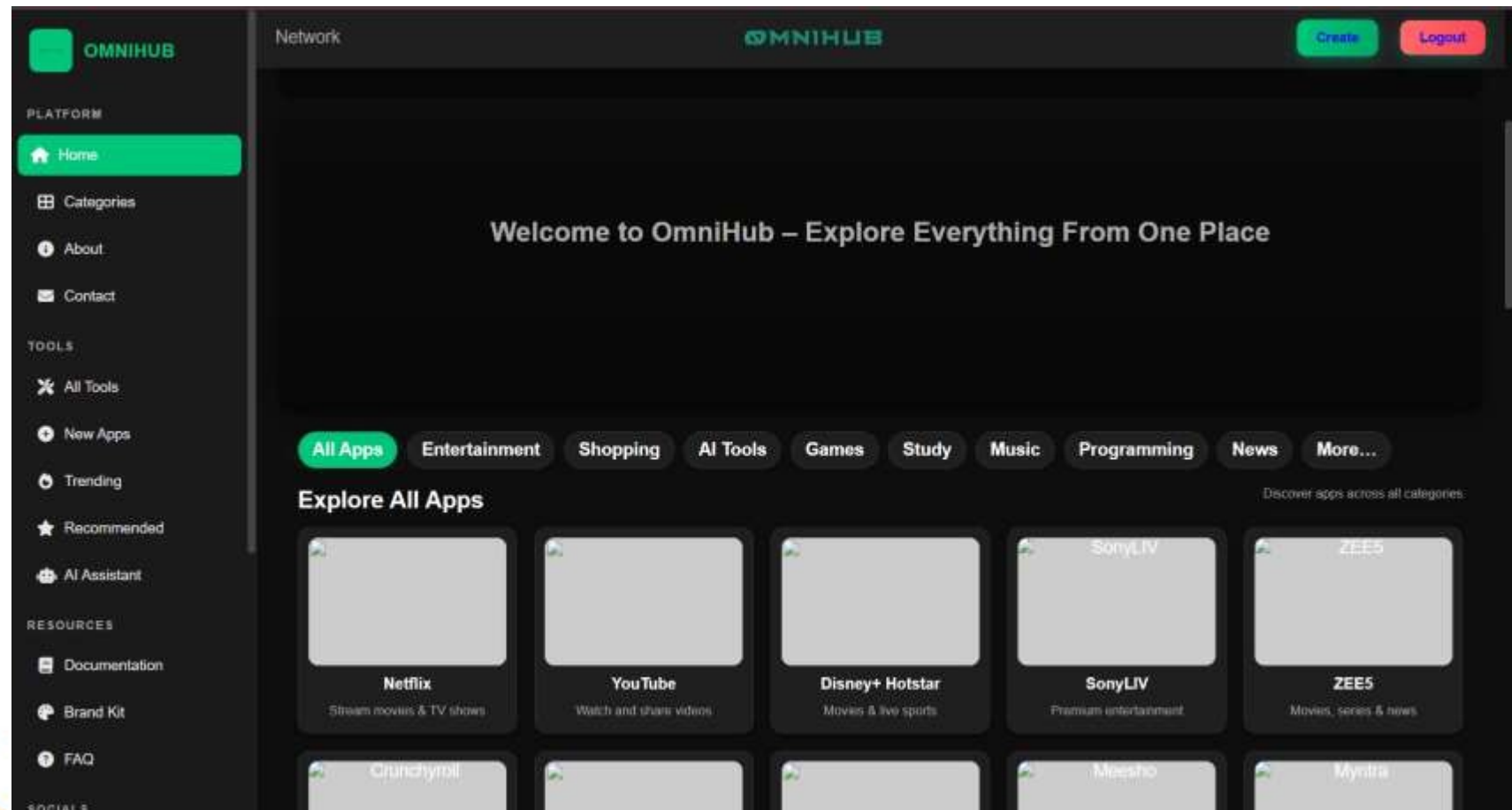


INPUT:





OUTPUT:





CONCLUSION:

- 1. The system successfully integrates multiple services into a single platform with high efficiency and usability.
2. The all-in-one web-based approach outperforms the traditional method of using separate websites for different needs.
3. The system provides a fast, centralized, and scalable solution suitable for real-world daily use.
4. The project improves user productivity, accessibility, and overall digital experience.



FUTURE WORK

1. Add a user login and profile system for personalization
2. Integrate AI recommendation engine to suggest content based on user interest
3. Add real-time analytics dashboard to track traffic and usage
4. Enable user content submission and feedback system
5. Develop a mobile app version (Android & iOS) of OmniHub



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2023

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2024

- Gupta, R., & Verma, P. (2024) – “Development of a Multi-Module Web Dashboard for E-Learning, Media, and Productivity.”

2025

- Rahman, M. A., & Ahmed, S. (2025) – “Scalable Web Hubs for Educational and Social Connectivity: Architecture and Implementation.”



Thank You...