Project Title : EduLink
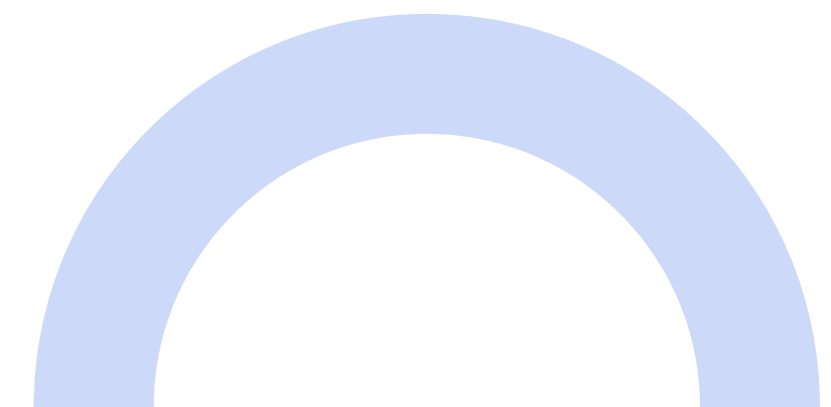
Problem Statement : Integrated Common Services to Common People

Name : Shantala Gopalakrishna Bhat
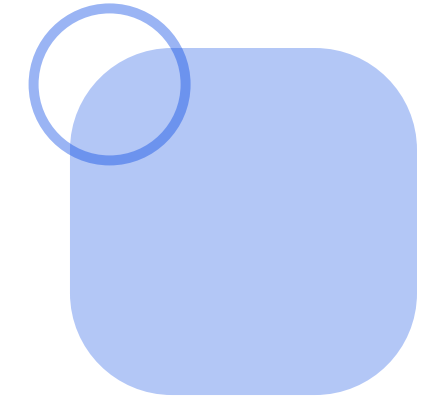
College : Atria Institute of Technology, Banglore

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Intel Unnati Mentor: Mr. Debdyut Hazra

Acknowledgement

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Lastly, I would like to acknowledge the numerous individuals and organizations whose resources and support have made this project possible. Your contributions, whether large or small, have been greatly appreciated.

Thank you all for making this endeavor a success.
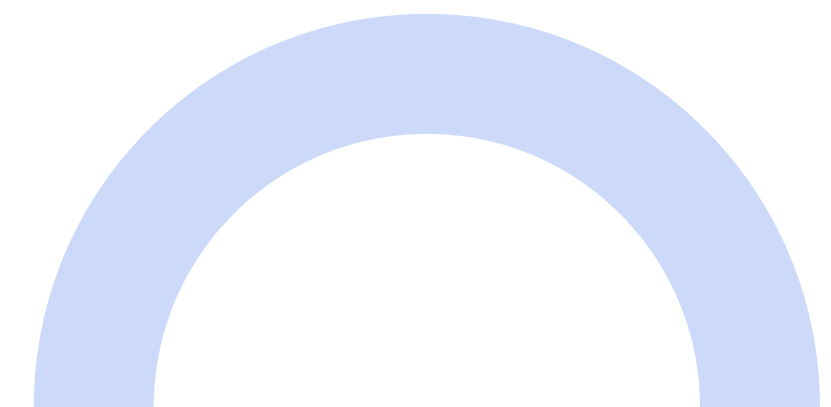
Abstract
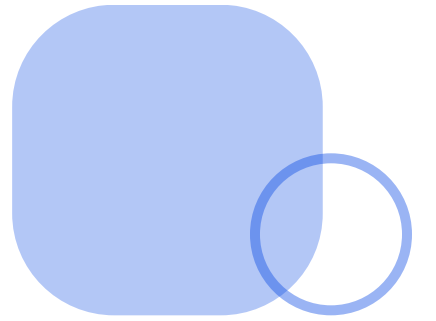
1. Project Title: EduLink – A Comprehensive Educational Resource Platform

2. Purpose:EduLink aims to bridge the gap between students and educational resources by providing a centralized platform that offers access to various online mentors and free learning materials. This platform caters to students seeking guidance and resources across different subjects.

3. Scope:EduLink includes web links to reputable online mentors and a vast array of free educational materials. The platform covers a wide range of subjects, making it a valuable tool for students of different academic levels and interests.

4. Key Features:
   - Centralized Access: A single platform with links to various mentors and resources.
   - Free Learning Materials: Access to high-quality, free educational content.
   - User-Friendly Interface: Easy navigation and search functionality for finding resources quickly.
   - Diverse Subjects: Resources spanning multiple subjects such as math, science, and languages.

5. Development Process: The development of EduLink involved researching and curating reliable educational resources, designing an intuitive user interface, and implementing the platform using modern web development technologies.

6.Challenges:
   - Resource Curation: Ensuring the credibility and quality of linked resources.
   - User Engagement: Developing features to keep users engaged and returning to the platform.

7. Results: EduLink has successfully aggregated a diverse collection of educational links and resources, receiving positive feedback from initial users for its ease of use and comprehensiveness.

8. Future Work:
   - Expanding Resources: Continuously adding new mentors and materials.
   - User Feedback Integration: Improving the platform based on user suggestions.
   - Advanced Features: Implementing personalized recommendations and interactive elements and Security features.

9. Conclusion:EduLink addresses the need for a centralized educational platform, making learning more accessible and organized. By connecting students with quality resources and mentors, EduLink has the potential to significantly enhance the learning experience.

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Introduction
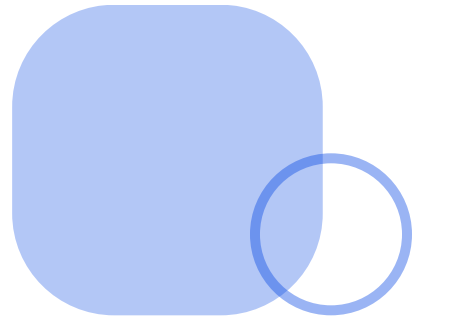
Background: In the digital age, students have access to a vast array of online educational resources and mentors. However, finding reliable and high-quality materials can be challenging. EduLink aims to address this by providing a centralized platform that aggregates valuable online learning resources and mentors.

Problem Statement :
Students often struggle to locate trustworthy and relevant educational content online. The lack of a unified platform results in wasted time and effort in searching for credible resources and mentors.

Objectives:
- To create a centralized platform for accessing curated online mentors and free learning materials.
- To enhance the learning experience with reliable and diverse educational resources.
- To reduce the time students spend searching for quality content.
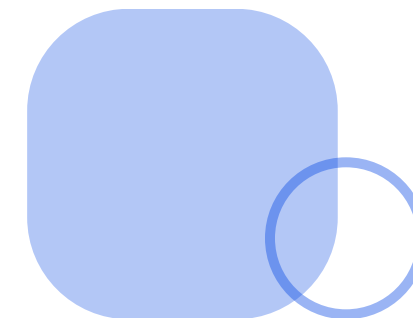
Significance: EduLink simplifies the search for educational resources, making high-quality learning materials and mentorship more accessible, supporting students' educational journeys, and fostering academic growth.

Scope: EduLink covers a wide range of subjects and caters to students from elementary to higher education levels. It features an intuitive user interface, easy navigation, and robust search functionality.

Methodology:
- Research and Curation: Identifying and verifying high-quality resources.
- Design and Development: Creating an intuitive interface using modern web technologies.
- Testing and Feedback: Conducting user testing and iterating based on feedback.
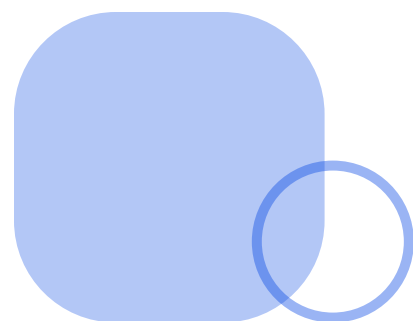
Description
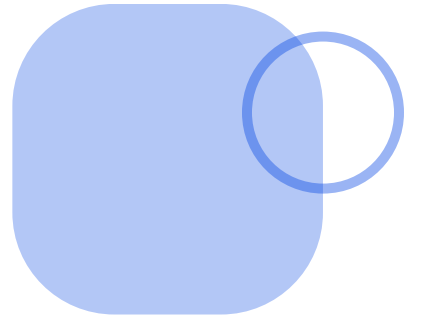
Developed a web based or an android application for solutions catering to common people focused issues in education
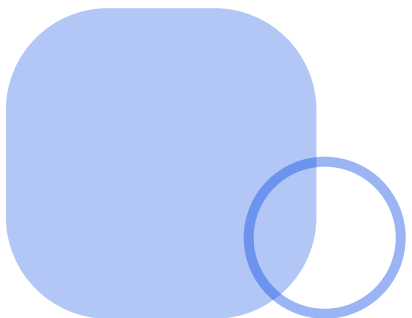
Unique Idea Brief (Solution)
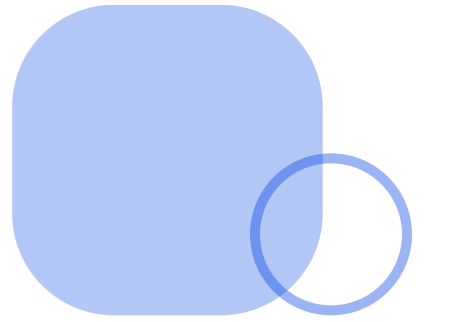
worked on a android application containing details(website links) of online mentors and free learning materials.

The code for the android application using HTML,CSS,Javascript is written :

1.HTML

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Welcome to EduLink</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
```

```html
<section id="homePage" class="page hidden">
  <div class="container">
    <h2>Hello <span id="userName"></span>!</h2>
    <p class="purpose">This application is educational-related. It contains web links of online mentors and free learning materials.</p>
    <div class="buttons">
      <button class="primary" onclick="showOnlineMentors()">Online Mentors</button>
      <button class="secondary" onclick="showFreeLearningMaterials()">Free Learning Materials</button>
      <button class="logout" onclick="logout()">Logout</button>
    </div>
  </div>
</section>
```

```html
<section id="onlineMentorsPage" class="page hidden">
  <div class="container">
    <h2>Online Mentors</h2>
    <div class="categories">
      <button onclick="showCategory('Online Mentors', 'Subject-specific Tutors')">Subject-specific Tutors</button>
      <button onclick="showCategory('Online Mentors', 'Academic Coaches')">Academic Coaches</button>
      <button onclick="showCategory('Online Mentors', 'Career Mentors')">Career Mentors</button>
      <button onclick="showCategory('Online Mentors', 'Peer Mentors')">Peer Mentors</button>
      <button onclick="showCategory('Online Mentors', 'Special Needs Tutors')">Special Needs Tutors</button>
      <button onclick="showCategory('Online Mentors', 'Test Prep Coaches')">Test Prep Coaches</button>
      <button onclick="showCategory('Online Mentors', 'Life Coaches')">Life Coaches</button>
      <button onclick="showCategory('Online Mentors', 'College Admission Counselors')">College Admission Counselors</button>
      <button onclick="showCategory('Online Mentors', 'Language Tutors')">Language Tutors</button>
      <button onclick="showCategory('Online Mentors', 'Tech and Coding Mentors')">Tech and Coding Mentors</button>
      <button onclick="showCategory('Online Mentors', 'Creative Art Mentors')">Creative Art Mentors</button>
    </div>
    <button class="back-button" onclick="showHomePage()">Back to Home</button>
  </div>
</section>
```

```html
<section id="freeLearningMaterialsPage" class="page hidden">
  <div class="container">
   <h2>Free Learning Materials</h2>
   <div class="categories">
    <button onclick="showCategory('Free Learning Materials', 'Open Courseware')">Open Courseware</button>
    <button onclick="showCategory('Free Learning Materials', 'E-Books')">E-Books</button>
    <button onclick="showCategory('Free Learning Materials', 'Video Lectures')">Video Lectures</button>
    <button onclick="showCategory('Free Learning Materials', 'Podcasts')">Podcasts</button>
    <button onclick="showCategory('Free Learning Materials', 'Webinars')">Webinars</button>
    <button onclick="showCategory('Free Learning Materials', 'MOOCs')">MOOCs</button>
    <button onclick="showCategory('Free Learning Materials', 'Learning Notes')">Learning Notes</button>
    <button onclick="showCategory('Free Learning Materials', 'Interactive Simulations')">Interactive Simulations</button>
    <button onclick="showCategory('Free Learning Materials', 'Online Forums and Communities')">Online Forums and Communities</button>
    <button onclick="showCategory('Free Learning Materials', 'Educational Apps')">Educational Apps</button>
    <button onclick="showCategory('Free Learning Materials', 'Worksheets and Practice Exercises')">Worksheets and Practice
Exercises</button>
    <button onclick="showCategory('Free Learning Materials', 'Open Access Journals')">Open Access Journals</button>
    <button onclick="showCategory('Free Learning Materials', 'Study Guides')">Study Guides</button>
    <button onclick="showCategory('Free Learning Materials', 'Flashcards')">Flashcards</button>
    <button onclick="showCategory('Free Learning Materials', 'Infographics')">Infographics</button>
    <button onclick="showCategory('Free Learning Materials', 'Virtual Labs')">Virtual Labs</button>
    <button onclick="showCategory('Free Learning Materials', 'Open Textbooks')">Open Textbooks</button>
    <button onclick="showCategory('Free Learning Materials', 'Educational Blogs')">Educational Blogs</button>
    <button onclick="showCategory('Free Learning Materials', 'Coding Platforms')">Coding Platforms</button>
    <button onclick="showCategory('Free Learning Materials', 'Language Learning Resources')">Language Learning Resources</button>
   </div>
```

```html
<section id="freeLearningMaterialsPage" class="page hidden">
   <div class="container">
    <h2>Free Learning Materials</h2>
    <div class="categories">
     <button onclick="showCategory('Free Learning Materials', 'Open Courseware')">Open Courseware</button>
     <button onclick="showCategory('Free Learning Materials', 'E-Books')">E-Books</button>
     <button onclick="showCategory('Free Learning Materials', 'Video Lectures')">Video Lectures</button>
     <button onclick="showCategory('Free Learning Materials', 'Podcasts')">Podcasts</button>
     <button onclick="showCategory('Free Learning Materials', 'Webinars')">Webinars</button>
     <button onclick="showCategory('Free Learning Materials', 'MOOCs')">MOOCs</button>
     <button onclick="showCategory('Free Learning Materials', 'Learning Notes')">Learning Notes</button>
     <button onclick="showCategory('Free Learning Materials', 'Interactive Simulations')">Interactive Simulations</button>
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     <button onclick="showCategory('Free Learning Materials', 'Open Access Journals')">Open Access Journals</button>
     <button onclick="showCategory('Free Learning Materials', 'Study Guides')">Study Guides</button>
     <button onclick="showCategory('Free Learning Materials', 'Flashcards')">Flashcards</button>
     <button onclick="showCategory('Free Learning Materials', 'Infographics')">Infographics</button>
     <button onclick="showCategory('Free Learning Materials', 'Virtual Labs')">Virtual Labs</button>
     <button onclick="showCategory('Free Learning Materials', 'Open Textbooks')">Open Textbooks</button>
     <button onclick="showCategory('Free Learning Materials', 'Educational Blogs')">Educational Blogs</button>
     <button onclick="showCategory('Free Learning Materials', 'Coding Platforms')">Coding Platforms</button>
     <button onclick="showCategory('Free Learning Materials', 'Language Learning Resources')">Language Learning Resources</button>
    </div>
    <button class="back-button" onclick="showHomePage()">Back to Home</button>
   </div>
```

```html
  </section>

  <section id="categoryPage" class="page hidden">
    <div class="container">
      <h2 id="categoryTitle"></h2>
      <ul id="categoryLinks"></ul>
      <button class="back-button" onclick="showOnlineMentors()">Back to Online Mentors</button>
      <button class="back-button" onclick="showFreeLearningMaterials()">Back to Free Learning Materials</button>
      <button class="back-button" onclick="showHomePage()">Back to Home</button>
    </div>
  </section>

  <script src="script.js"></script>
</body>
</html>
```

Explaination of HTML code:

HTML Structure (index.html)

Document Type Declaration (<!DOCTYPE html>): Specifies the HTML version and language.

HTML Root (<html lang="en">): Defines the document's root element with the language set to English.

Head Section (<head>): Contains metadata like character set, viewport settings, and the page title.
Links to an external stylesheet (styles.css) for styling.

Body Section (<body>):Contains different sections (<section>) representing different pages of the application.
Pages and Sections

Welcome Page :Initial landing page with a welcome message and a "Login" button.Clicking "Login" triggers showLoginPage() function.

Login Page :Contains a form (<form>) for user login.Requires input for "Name" and "Email".Submitting the form triggers loginUser(event) function.Upon successful login, user's name is displayed on the homepage.

Home Page:Displays a personalized welcome message.
Provides buttons to access different sections:
"Online Mentors"
"Free Learning Materials"
"Logout"

Online Mentors Page :Lists categories of online mentors.Each category has clickable buttons. Clicking a category button displays specific mentors under that category.

Free Learning Materials Page :Lists categories of free learning materials.Each category has clickable buttons.Clicking a category button displays specific resources under that category.

Category Page :Displays specific links based on the selected category from either mentors or learning materials.
Each link is clickable (<a> tag) and opens in a new tab (target="_blank")

2.CSS

```css
/* General styles */
body {
font-family: Arial, sans-serif;
margin: 0;
padding: 0;
background: #f0f0f0; /* fallback color */
background: linear-gradient(135deg, #b8e0f4, #f5f5f5);
}

.container {
max-width: 1200px;
margin: 0 auto;
padding: 20px;
}

/* Header styles */
header {
background: linear-gradient(to right, #3b8d99, #6bb9c9);
color: white;
text-align: center;
padding: 10px 0;
margin-bottom: 20px;}
```

```css
header h1 {
margin: 0;
}

/* Page styles */
.page {
display: flex;
flex-direction: column;
align-items: center;
text-align: center;
padding: 20px;
}

.page:not(.hidden) {
display: flex;
}

.hidden {
display: none !important;
}
```

```css
/* Button styles */
button {
  background-color: #4cafce;
  color: white;
  border: none;
  padding: 10px 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  margin: 10px;
  cursor: pointer;
  border-radius: 4px;
  transition: background-color 0.3s ease;
}

button:hover {
  background-color: #2098a4;
}
```

```css
/* Form styles */
form {
  display: flex;
  flex-direction: column;
  max-width: 300px;
  margin: 0 auto;
  background: #fff;
  padding: 20px;
  border-radius: 4px;
  box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}

form label {
  margin-bottom: 8px;
}

form input[type="text"],
form input[type="email"] {
  padding: 10px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 4px;
}
```

```css
form button[type="submit"] {
  background-color: #4cafce;
  color: white;
  border: none;
  padding: 10px 20px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 16px;
  margin-top: 10px;
  cursor: pointer;
  border-radius: 4px;
  transition: background-color 0.3s ease;
}

form button[type="submit"]:hover {
  background-color: #2098a4;
}
```

```css
/* Home Page styles */
.home-content {
    max-width: 800px;
}

.home-content h2 {
    margin-bottom: 20px;
}

.home-content button {
    margin-bottom: 10px;
}

/* Category Page styles */
.category-content {
    max-width: 800px;
}

.category-content h2 {
    margin-bottom: 20px;
}
```

```css
.category-content ul {
    list-style-type: none;
    padding: 0;
}

.category-content ul li {
    text-align: left;
    margin-bottom: 10px;
    background: #fff;
    padding: 15px;
    border-radius: 4px;
    box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.1);
}

.category-content ul li a {
    text-decoration: none;
    color: #333;
}

.category-content ul li a
```

```css
.category-content ul li a:hover {
    color: #4cafce;
}
```

CSS Code explaination

Styling (styles.css):

General styling for buttons, forms, headers, and pages (body, .container, header, .page, .hidden).

Specific styles for forms (form, label, input), buttons (button), lists (ul, li), and links (a).

Responsive design with max-width constraints and padding/margin adjustments.

3. Javascript

```javascript
const categories = {
  'Online Mentors': {
    'Subject-specific Tutors': [
      { name: 'Khan Academy', link: 'https://www.khanacademy.org/' },
      { name: 'Chegg Tutors', link: 'https://www.chegg.com/tutors/' },
      { name: 'Varsity Tutors', link: 'https://www.varsitytutors.com/' },
      { name: 'Wyzant', link: 'https://www.wyzant.com/' },
      { name: 'Tutor.com', link: 'https://www.tutor.com/' }
    ],
    'Academic Coaches': [
      { name: 'Smarthinking', link: 'https://www.pearson.com/us/higher-education/products-services-institutions/smarthinking.html' },
      { name: 'Grade Potential', link: 'https://www.gradepotentialtutoring.com/' },
      { name: 'Sylvan Learning', link: 'https://www.sylvanlearning.com/' },
      { name: 'Huntington Learning Center', link: 'https://huntingtonhelps.com/' },
      { name: 'Club Z! Tutoring', link: 'https://clubztutoring.com/' }
    ],
    'Career Mentors': [
      { name: 'The Muse', link: 'https://www.themuse.com/advice' },
      { name: 'Monster Career Advice', link: 'https://www.monster.com/career-advice' },
      { name: 'LinkedIn Learning', link: 'https://www.linkedin.com/learning/' },
      { name: 'National Career Fairs', link: 'https://www.nationalcareerfairs.com/' },
      { name: 'Forbes Coaches Council', link: 'https://www.forbes.com/coaches-council/' }
    ],
```

```
'Peer Mentors': [
  { name: 'StudentMentor.org', link: 'https://www.studentmentor.org/' },
  { name: 'iCouldBe', link: 'https://icouldbe.org/' },
  { name: 'MentorNet', link: 'https://mentornet.org/' },
  { name: 'iMentor', link: 'https://www.imentor.org/' },
  { name: 'National Mentoring Resource Center', link: 'https://nationalmentoringresourcecenter.org/' }
],
'Special Needs Tutors': [
  { name: 'Learning Ally', link: 'https://learningally.org/' },
  { name: 'Noodle', link: 'https://www.noodle.com/' },
  { name: 'Understood', link: 'https://www.understood.org/' },
  { name: 'Autism Speaks', link: 'https://www.autismspeaks.org/' },
  { name: 'Learning Disabilities Association of America', link: 'https://ldaamerica.org/' }
],
'Test Prep Coaches': [
  { name: 'Princeton Review', link: 'https://www.princetonreview.com/' },
  { name: 'Kaplan Test Prep', link: 'https://www.kaptest.com/' },
  { name: 'Magoosh', link: 'https://www.magoosh.com/' },
  { name: 'PrepScholar', link: 'https://www.prepscholar.com/' },
  { name: 'Manhattan Prep', link: 'https://www.manhattanprep.com/' }
],
```

```
'Life Coaches': [
  { name: 'Coach.me', link: 'https://www.coach.me/' },
  { name: 'Noomii', link: 'https://www.noomii.com/' },
  { name: 'BetterHelp', link: 'https://www.betterhelp.com/' },
  { name: 'Life Coach Directory', link: 'https://www.lifecoach-directory.org.uk/' },
  { name: 'International Coach Federation', link: 'https://coachfederation.org/' }
],
'College Admission Counselors': [
  { name: 'Common App', link: 'https://www.commonapp.org/' },
  { name: 'College Board', link: 'https://www.collegeboard.org/' },
  { name: 'NACAC College Fairs', link: 'https://www.nacacfairs.org/' },
  { name: 'American College Counseling Association', link: 'https://www.accounseling.org/' },
  { name: 'National Association for College Admission Counseling', link: 'https://www.nacacnet.org/' }
],
'Language Tutors': [
  { name: 'italki', link: 'https://www.italki.com/' },
  { name: 'Verbling', link: 'https://www.verbling.com/' },
  { name: 'Duolingo', link: 'https://www.duolingo.com/' },
  { name: 'Rosetta Stone', link: 'https://www.rosettastone.com/' },
  { name: 'FluentU', link: 'https://www.fluentu.com/' }
],
'Tech and Coding Mentors': [
  { name: 'Codecademy', link: 'https://www.codecademy.com/' },
  { name: 'freeCodeCamp', link: 'https://www.freecodecamp.org/' },
  { name: 'Udacity', link: 'https://www.udacity.com/' },
  { name: 'Pluralsight', link: 'https://www.pluralsight.com/' },
  { name: 'Treehouse', link: 'https://teamtreehouse.com/' }
],
```

```
  'Creative Art Mentors': [
    { name: 'CreativeLive', link: 'https://www.creativelive.com/' },
    { name: 'Skillshare', link: 'https://www.skillshare.com/' },
    { name: 'MasterClass', link: 'https://www.masterclass.com/' },
    { name: 'Udemy', link: 'https://www.udemy.com/' },
    { name: 'Kadenze', link: 'https://www.kadenze.com/' }
  ]
},
'Free Learning Materials': {
  'Open Courseware': [
    { name: 'MIT OpenCourseWare', link: 'https://ocw.mit.edu/index.htm' },
    { name: 'Coursera', link: 'https://www.coursera.org/' },
    { name: 'edX', link: 'https://www.edx.org/' },
    { name: 'OpenLearn', link: 'https://www.open.edu/openlearn/' },
    { name: 'FutureLearn', link: 'https://www.futurelearn.com/' }
  ],
  'E-Books': [
    { name: 'Project Gutenberg', link: 'https://www.gutenberg.org/' },
    { name: 'Open Library', link: 'https://openlibrary.org/' },
    { name: 'Bookboon', link: 'https://bookboon.com/' },
    { name: 'ManyBooks', link: 'https://manybooks.net/' },
    { name: 'LibriVox', link: 'https://librivox.org/' }
  ],
  'Video Lectures': [
    { name: 'TED-Ed', link: 'https://ed.ted.com/' },
    { name: 'YouTube EDU', link: 'https://www.youtube.com/education' },
    { name: 'Academic Earth', link: 'https://academicearth.org/' },
    { name: 'Big Think', link: 'https://bigthink.com/' },
    { name: 'The Great Courses', link: 'https://www.thegreatcourses.com/' }
  ],
```

```
'Podcasts': [
  { name: 'iTunes U', link: 'https://www.apple.com/education/itunes-u/' },
  { name: 'NPR Podcast Directory', link: 'https://www.npr.org/podcasts/' },
  { name: 'TED Talks Audio', link: 'https://www.ted.com/talks' },
  { name: 'Google Podcasts', link: 'https://podcasts.google.com/' },
  { name: 'Spotify Podcasts', link: 'https://www.spotify.com/us/podcasts/' }
],
'Webinars': [
  { name: 'WebinarNinja', link: 'https://webinarninja.com/' },
  { name: 'GoToWebinar', link: 'https://www.gotomeeting.com/webinar' },
  { name: 'Zoom Webinars', link: 'https://zoom.us/webinar' },
  { name: 'Demio', link: 'https://demio.com/' },
  { name: 'WebEx', link: 'https://www.webex.com/webinars.html' }
],
'MOOCs': [
  { name: 'Class Central', link: 'https://www.classcentral.com/' },
  { name: 'MOOC List', link: 'https://www.mooc-list.com/' },
  { name: 'Open Education Consortium', link: 'https://www.oeconsortium.org/' },
  { name: 'MOOC.org', link: 'https://www.mooc.org/' },
  { name: 'Courseroot', link: 'https://courseroot.com/' }
],
'Learning Notes': [
  { name: 'Evernote', link: 'https://www.evernote.com/' },
  { name: 'OneNote', link: 'https://www.onenote.com/' },
  { name: 'Notion', link: 'https://www.notion.so/' },
  { name: 'Bear', link: 'https://bear.app/' },
  { name: 'Zotero', link: 'https://www.zotero.org/' }
],
```

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'Interactive Simulations': [
  { name: 'PhET Interactive Simulations', link: 'https://phet.colorado.edu/' },
  { name: 'ExploreLearning Gizmos', link: 'https://www.explorelearning.com/' },
  { name: 'Ptable', link: 'https://ptable.com/' },
  { name: 'ChemCollective', link: 'http://chemcollective.org/' },
  { name: 'BioDigital Human', link: 'https://www.biodigital.com/' }
],
'Online Forums and Communities': [
  { name: 'Stack Overflow', link: 'https://stackoverflow.com/' },
  { name: 'GitHub Discussions', link: 'https://github.com/features/discussions' },
  { name: 'Reddit', link: 'https://www.reddit.com/' },
  { name: 'Quora', link: 'https://www.quora.com/' },
  { name: 'Hacker News', link: 'https://news.ycombinator.com/' }
],
'Educational Apps': [
  { name: 'Duolingo', link: 'https://www.duolingo.com/' },
  { name: 'Khan Academy', link: 'https://www.khanacademy.org/' },
  { name: 'Quizlet', link: 'https://quizlet.com/' },
  { name: 'Memrise', link: 'https://www.memrise.com/' },
  { name: 'Photomath', link: 'https://www.photomath.app/' }
],
'Worksheets and Practice Exercises': [
  { name: 'WorksheetWorks', link: 'https://www.worksheetworks.com/' },
  { name: 'Math-Aids', link: 'https://www.math-aids.com/' },
  { name: 'Super Teacher Worksheets', link: 'https://www.superteacherworksheets.com/' },
  { name: 'EnglishForEveryone.org', link: 'https://www.englishforeveryone.org/' },
  { name: 'BusyTeacher', link: 'https://busyteacher.org/' }
],
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'Open Access Journals': [
  { name: 'Directory of Open Access Journals (DOAJ)', link: 'https://doaj.org/' },
  { name: 'PubMed Central (PMC)', link: 'https://www.ncbi.nlm.nih.gov/pmc/' },
  { name: 'ScienceDirect Open Access', link: 'https://www.sciencedirect.com/' },
  { name: 'PLOS (Public Library of Science)', link: 'https://www.plos.org/' },
  { name: 'Springer Open', link: 'https://www.springeropen.com/' }
],
'Study Guides': [
  { name: 'CliffsNotes', link: 'https://www.cliffsnotes.com/' },
  { name: 'SparkNotes', link: 'https://www.sparknotes.com/' },
  { name: 'Shmoop', link: 'https://www.shmoop.com/' },
  { name: 'GradeSaver', link: 'https://www.gradesaver.com/' },
  { name: 'BrightHub Education', link: 'https://www.brighthubeducation.com/' }
],
'Flashcards': [
  { name: 'Quizlet', link: 'https://quizlet.com/' },
  { name: 'StudyBlue', link: 'https://www.studyblue.com/' },
  { name: 'Brainscape', link: 'https://www.brainscape.com/' },
  { name: 'Anki', link: 'https://apps.ankiweb.net/' },
  { name: 'Cram.com', link: 'https://www.cram.com/' }
],
'Infographics': [
  { name: 'Visual.ly', link: 'https://visual.ly/' },
  { name: 'Infogram', link: 'https://infogram.com/' },
  { name: 'Venngage', link: 'https://www.venngage.com/' },
  { name: 'Piktochart', link: 'https://piktochart.com/' },
  { name: 'Canva', link: 'https://www.canva.com/' }
],

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'Virtual Labs': [
  { name: 'PhET Interactive Simulations', link: 'https://phet.colorado.edu/' },
  { name: 'Labster', link: 'https://www.labster.com/' },
  { name: 'ChemCollective', link: 'http://chemcollective.org/' },
  { name: 'BioDigital Human', link: 'https://www.biodigital.com/' },
  { name: 'LabXchange', link: 'https://www.labxchange.org/' }
],
'Open Textbooks': [
  { name: 'OpenStax', link: 'https://openstax.org/' },
  { name: 'Open Textbook Library', link: 'https://open.umn.edu/opentextbooks/' },
  { name: 'BCcampus OpenEd', link: 'https://open.bccampus.ca/find-open-textbooks/' },
  { name: 'Open Book Publishers', link: 'https://www.openbookpublishers.com/' },
  { name: 'Lumen Learning', link: 'https://courses.lumenlearning.com/' }
],
'Educational Blogs': [
  { name: 'Edutopia', link: 'https://www.edutopia.org/' },
  { name: 'TeachThought', link: 'https://www.teachthought.com/' },
  { name: 'Cult of Pedagogy', link: 'https://www.cultofpedagogy.com/' },
  { name: 'The Learning Network (NY Times)', link: 'https://www.nytimes.com/section/learning' },
  { name: 'Education Week', link: 'https://www.edweek.org/' }
],
'Coding Platforms': [
  { name: 'GitHub', link: 'https://github.com/' },
  { name: 'Codecademy', link: 'https://www.codecademy.com/' },
  { name: 'HackerRank', link: 'https://www.hackerrank.com/' },
  { name: 'LeetCode', link: 'https://leetcode.com/' },
  { name: 'Codewars', link: 'https://www.codewars.com/' }
],
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  'Language Learning Resources': [
    { name: 'Duolingo', link: 'https://www.duolingo.com/' },
    { name: 'Memrise', link: 'https://www.memrise.com/' },
    { name: 'Babbel', link: 'https://www.babbel.com/' },
    { name: 'Rosetta Stone', link: 'https://www.rosettastone.com/' },
    { name: 'FluentU', link: 'https://www.fluentu.com/' }
  ]
 }
};

// Login functionality
function showLoginPage() {
 hideAllPages();
 document.getElementById('loginPage').classList.remove('hidden');
}

function loginUser(event) {
 event.preventDefault();
 const name = document.getElementById('name').value;
 const email = document.getElementById('email').value;

 if (name && email) {
   // Mock login success
   document.getElementById('userName').textContent = name;
   showHomePage();
 }
}
```

```javascript
// Navigation functions
function showHomePage() {
  hideAllPages();
  document.getElementById('homePage').classList.remove('hidden');
}

function logout() {
  hideAllPages();
  document.getElementById('welcomePage').classList.remove('hidden');
}

function showOnlineMentors() {
  hideAllPages();
  document.getElementById('onlineMentorsPage').classList.remove('hidden');
}

function showFreeLearningMaterials() {
  hideAllPages();
  document.getElementById('freeLearningMaterialsPage').classList.remove('hidden');
}

function showCategory(parentCategory, category) {
  hideAllPages();
  document.getElementById('categoryTitle').textContent = category;
  const categoryLinks = document.getElementById('categoryLinks');
  categoryLinks.innerHTML = '';
```

```javascript
categories[parentCategory][category].forEach(link => {
  const li = document.createElement('li');
  const a = document.createElement('a');
  a.textContent = link.name;
  a.href = link.link;
  a.target = '_blank';
  li.appendChild(a);
  categoryLinks.appendChild(li);
});

document.getElementById('categoryPage').classList.remove('hidden');
```

Javascript Explaination

JavaScript Functionality (script.js)

Login Functionality:

    showLoginPage(): Displays the login page.

    loginUser(event): Validates login inputs and shows the home page upon successful login.

Navigation Functions:

    showHomePage(), logout(): Show/hide different sections based on user actions.

    showOnlineMentors(), showFreeLearningMaterials(): Show the respective pages and hide others.

    showCategory(parentCategory, category): Display links based on selected category.

OUTPUT:

Welcome to EduLink

Login

Login

Name: [_____] Email:

[_____] Login

Hello Shantala Gopalakrishna Bhat !

This application is educational-related. It contains web links of online mentors and free learning materials.

Online Mentors   Free Learning Materials   Logout

Online Mentors

Subject-specific Tutors   Academic Coaches

Career Mentors   Peer Mentors   Special Needs Tutors

Test Prep Coaches   Life Coaches

College Admission Counselors   Language Tutors

Tech and Coding Mentors   Creative Art Mentors

Back to Home

Free Learning Materials

Open Courseware
E-Books
Video Lectures
Podcasts
Webinars
MOOCs
Learning Notes
Interactive Simulations
Online Forums and Communities
Educational Apps
Worksheets and Practice Exercises
Open Access Journals
Study Guides
Flashcards
Infographics
Virtual Labs
Open Textbooks
Educational Blogs
Coding Platforms
Language Learning Resources
Back to Home

Subject-specific Tutors

- [Khan Academy](#)
- [Chegg Tutors](#)
- [Varsity Tutors](#)
- [Wyzant](#)
- [Tutor.com](#)

Back to Online Mentors   Back to Free Learning Materials

Back to Home

In Codepen

Welcome to EduLink

Login

Login

Name:

Email:

Login

Hello Shantala Gopalakrishna Bhat!

This application is educational-related. It contains web links of online mentors and free learning materials.

Online Mentors

Free Learning Materials

Logout

Online Mentors

Subject-specific Tutors

Academic Coaches

Career Mentors

Peer Mentors

Special Needs Tutors

Subject-specific Tutors

- [Khan Academy](#)
- [Chegg Tutors](#)
- [Varsity Tutors](#)
- [Wyzant](#)
- [Tutor.com](#)

Back to Online Mentors

Back to Free Learning Materials

Back to Home

Features Offered

Educational Content Aggregation: EduLink gathers and presents educational information such as online mentors and links to free learning materials.

Online Mentor Matching: Facilitates connecting users with online mentors or educators based on their educational needs.

Access to Learning Materials: Provides convenient access to acurated list of free learning resources, enhancing users' ability to find relevant study materials.

User-Friendly Interface: Designed with HTML, CSS, and JavaScript to ensure a smooth and intuitive user experience on Android devices.

Processflow

1.written mobile responsive code for HTML,CSS,Java script.

2.previewed the design of application using Codepen.

3.saved the code in notepad with index.html,styles.css,script.j

4.hosted the web application using tiiny.host

5.converted web app into apk file using webintoapp .com

Architecture Diagram for App Development

Code in html, CSS, Javascipt

Test the application design

Host web application

Convert web application into Apk
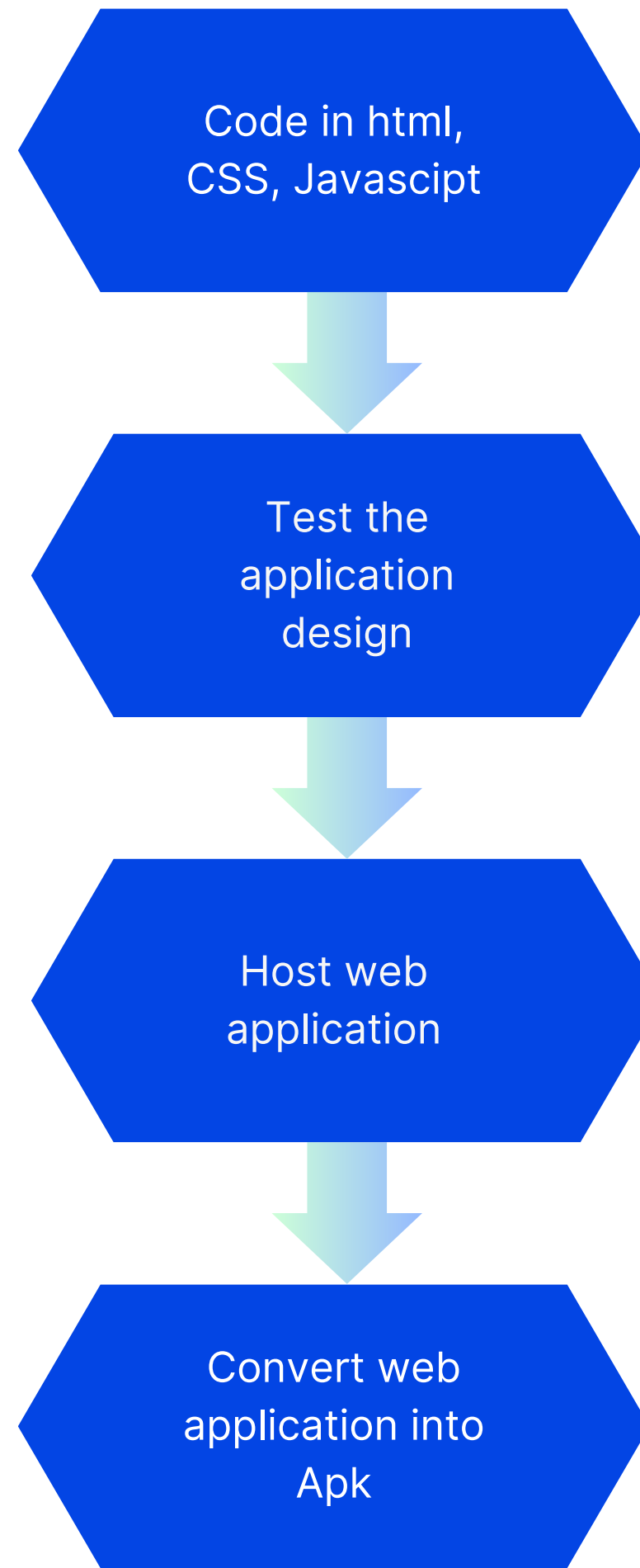
Technologies used

1. learnt programming languages and written code. used inernet for additional featuring to the app.

2. learnt using tools from internet.

3. you tube videos.

Conclusion:

EduLink provides integrating access to online mentors and a wealth of free learning materials. Its user-friendly interface. Looking ahead to continued enhancements such as AI-driven content recommendations , expanded mentorship and more seccurity features network promise to further elevate its utility and impact in the educational landscape.