ApexPlanet
Software Pvt Ltd

INTERNSHIP PROGRAM

Web Development

PHP, MYSQL

45 - DAYS

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About Us

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At ApexPlanet Software Pvt. Ltd., we are dedicated to driving innovation and excellence in the realm of digital solutions. Founded with a vision to empower businesses through cutting-edge technology, we specialize in delivering top-notch web development and app development services tailored to meet the unique needs of our clients.

Our team of skilled professionals is passionate about creating robust, scalable, and user-friendly applications that enhance user experiences and drive business growth. We leverage the latest technologies and industry best practices to ensure that our solutions are not only effective but also future-proof.

In addition to our core services, ApexPlanet Software Pvt. Ltd. is committed to nurturing the next generation of tech talent. We offer comprehensive internship programs that provide hands-on experience and mentorship, preparing aspiring developers for successful careers in the software industry.

Join us on our journey to make a significant impact in the digital world. With ApexPlanet Software Pvt. Ltd., your business is poised for success, and your career is set on a path of continuous learning and achievement.

How to Submit Your Internship Task

1. **Prepare Your Task**
   - Complete your task before the submission date.
2. **Create a Screen Recording**
   - Record your project using screen recording software and the video file.
3. **Upload Video to LinkedIn**
   - Log in to LinkedIn.
   - Go to your profile, add the video under "Featured."
   - Copy the video link.
4. **Upload Project to GitHub**
   - Create a GitHub account (if you don't have one).
   - Create a new repository and upload your project files.
   - Make the repository public and copy the link.
5. **Register and Log In to ApexPlanet**
   - Go to ApexPlanet Internship.
   - Register and log in.

4. **Submit Your Task**
   - Go to "Manage Task."
   - Verify using your offer letter ID and email.
   - Click on the relevant task button.
   - Fill in the details, paste the LinkedIn video link, and the GitHub repository link.
   - Submit.
5. **Open the Next Task**
   - After submitting, click to open the next task and repeat the process.

This streamlined process ensures your tasks are submitted professionally and on time.

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Internship Tasks for Web Development (PHP & MySQL)

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Task-1
Setting Up the Development Environment.

Task-2
Basic CRUD Application.

Task-3
Advanced Features Implementation.

Task-4
Security Enhancements.

Task-5
Final Project and Certification.

Setting Up the Development Environment

- **Objective:**
  - Set up a local development environment for PHP and MySQL.
  - Configure a version control system using Git and GitHub.

- **Steps:**

  1. **Install a Local Server Environment:**

     - Download and install XAMPP, WAMP, or MAMP.
     - Verify the installation by running Apache and MySQL services and accessing http://localhost in a web browser.

 2. **Install a Code Editor:**

     - Choose a code editor like Visual Studio Code or Sublime Text.
     - Configure the editor with necessary plugins for PHP development.

  3. **Set Up Version Control:**

     - Install Git on your machine.
     - Create a GitHub account (if you don't have one).
     - Initialize a Git repository in your project directory.
     - Make your first commit with a basic project structure (index.php, README.md).

- **Deliverables:**

  - A working local server environment.
  - A Git repository with an initial commit.

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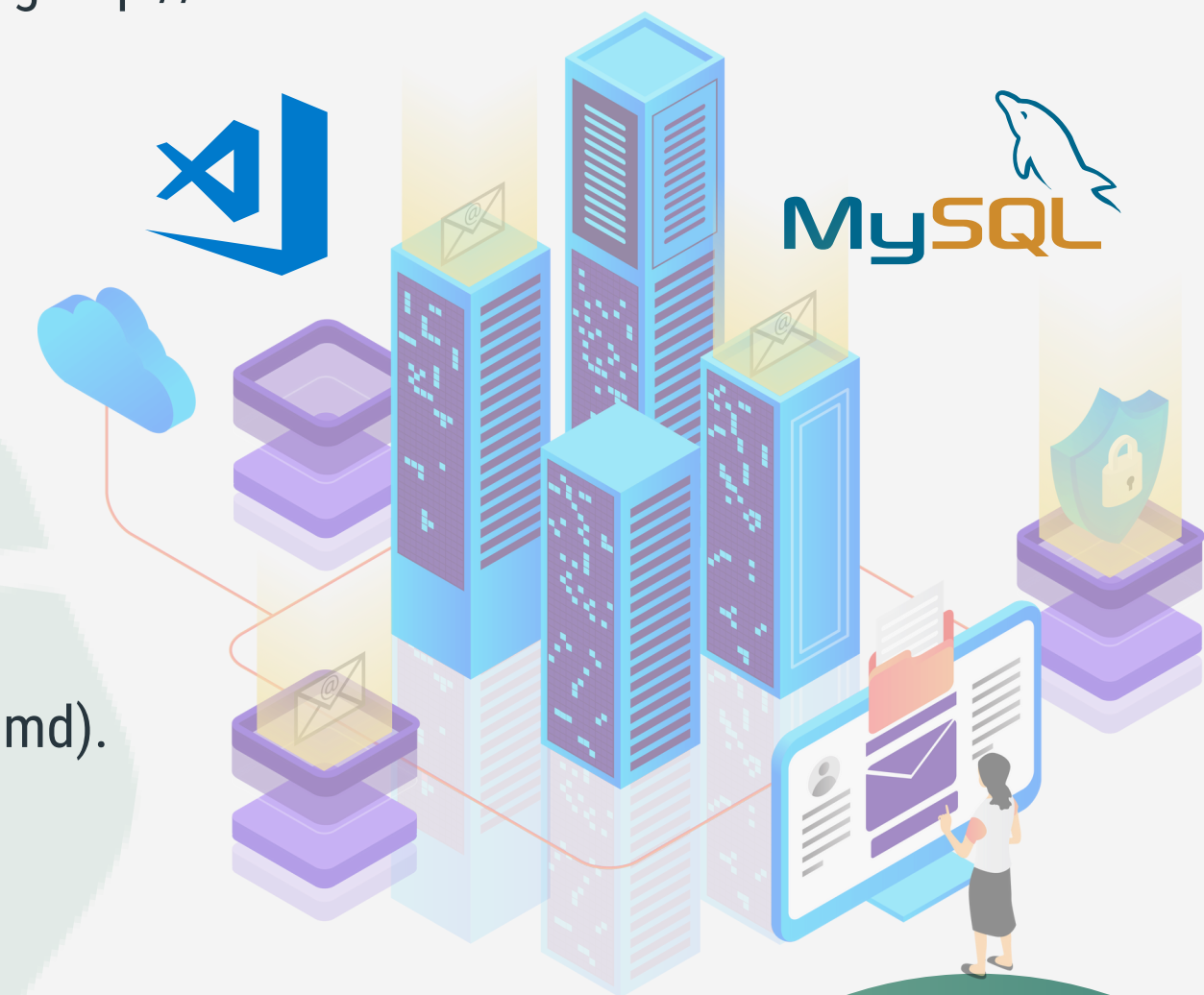
Basic CRUD Application

- **Objective:**
  - Develop a simple web application to perform CRUD operations.
  - Implement basic user authentication.

- **Steps:**

  1. **Database Setup:**
     - Create a MySQL database named blog.
     - Create tables posts (id, title, content, created_at) and users (id, username, password).

 2. **Create, Read, Update, Delete (CRUD) Operations:**
     - Create : Develop a PHP form to add new posts to the database.
     - Read : Display a list of posts from the database.
     - Update : Implement functionality to edit existing posts.
     - Delete : Add functionality to delete posts.

  3. **User Authentication:**
     - Create registration and login forms.
     - Use password hashing for storing passwords securely.
     - Implement session management to handle user login states.

- **Deliverables:**
  - A functional CRUD application with user authentication.
  - Database schema documentation and PHP code.
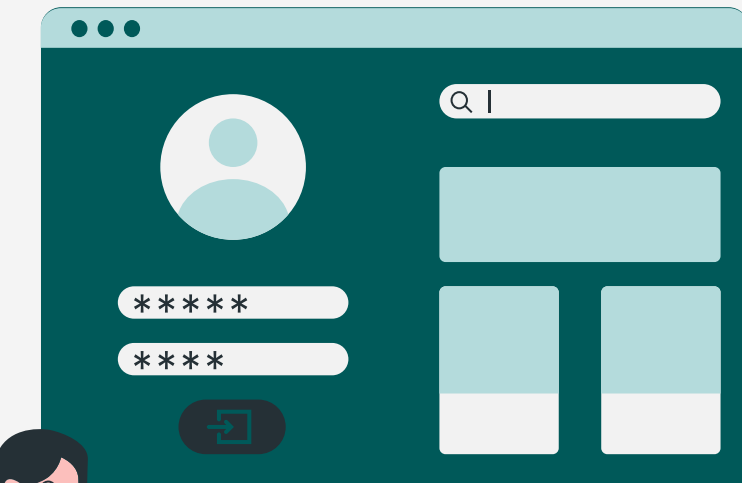
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Advanced Features Implementation

● **Objective :**

  • Enhance the application with advanced features like search and pagination.

  • Improve the user interface.

● **Steps:**

  1. **Search Functionality :**

     • Add a search form to allow users to search posts by title or content.

     • Implement PHP code to perform the search query and display results.

  2. **Pagination :**

     • Implement pagination for the posts listing page.

     • Ensure the page displays a limited number of posts per page with navigation links to other pages.

  3. **User Interface Improvements :**

     • Use CSS to style the application for better UX.

     • Optionally, integrate a front-end framework like Bootstrap for responsive design.

● **Deliverables:**

  • Updated application with search and pagination.

  • Improved user interface design.

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Security Enhancements

- **Objective :**
  - Secure the application against common web vulnerabilities.
  - Implement form validation and user roles.

- **Steps:**

  1. **Prepared Statements :**
     - Use PDO or MySQLi to implement prepared statements for all database queries to prevent SQL injection attacks.

 2. **Form Validation :**
     - Add server-side validation for all forms to ensure data integrity.
     - Implement client-side validation for an enhanced user experience.

  3. **User Roles and Permissions :**
     - Extend the user table to include roles (e.g., admin, editor).
     - Implement role-based access control for different parts of the application.

- **Deliverables:**

  - A more secure application with prepared statements, form validation, and user roles.
  - Documentation on the security measures implemented.

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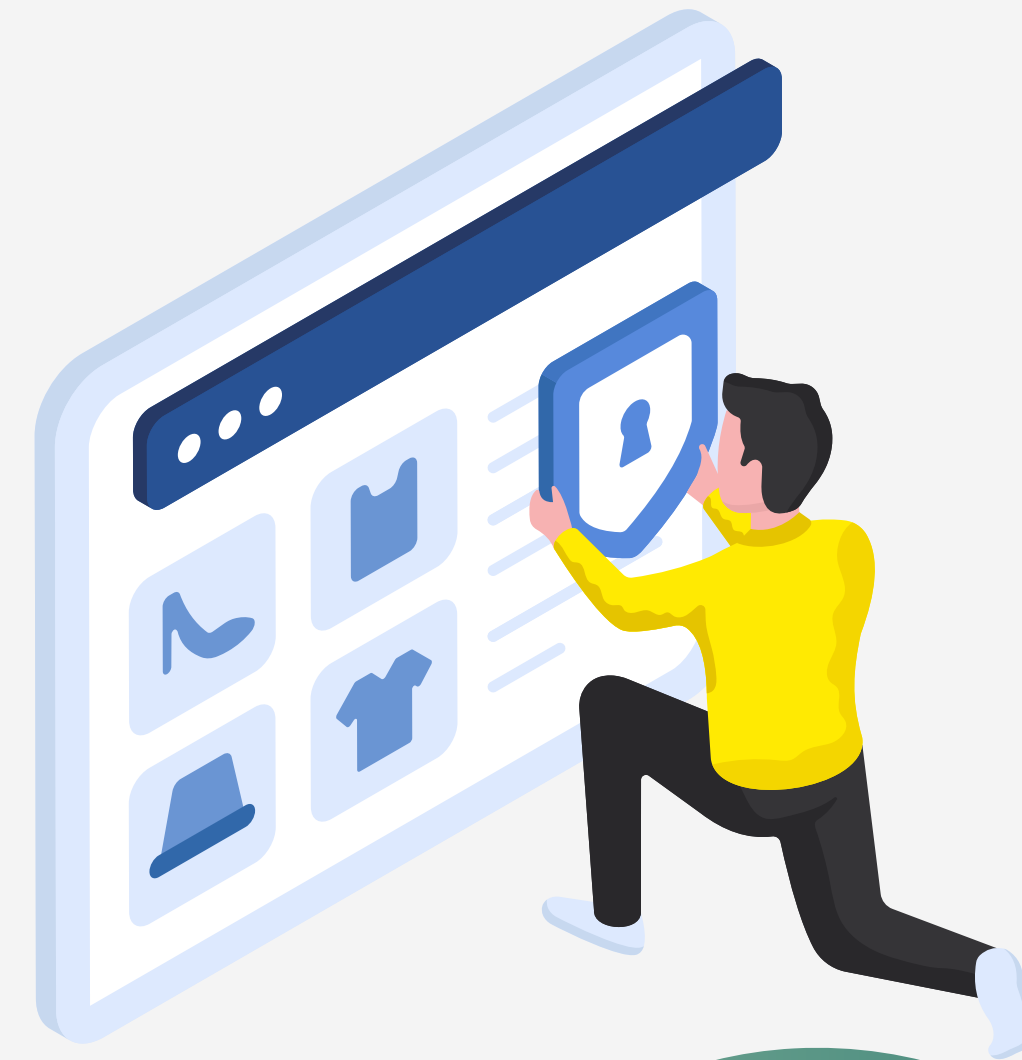
Final Project and Certification

- **Objective :**
  - integrate all features into a cohesive final project.
  - Test and debug the application thoroughly.
- **Steps:**
  1. **Integration :**
     - Ensure all features (CRUD operations, search, pagination, authentication, security enhancements) are working seamlessly together.
     - Conduct thorough testing to identify and fix bugs.
  2. **Testing and Debugging :**
     - Perform functional, usability, and security testing.
     - Fix any issues discovered during testing.
- **Deliverables:**
  - A polished, fully functional web application.

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THANK YOU

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