\*Module Description:\*

The Serverless Task Management Web Application module offers a modern and lightweight approach to task management, utilizing serverless architecture to minimize infrastructure complexity and operational overhead. It provides users with a seamless and responsive interface for managing tasks, projects, and workflows efficiently.

\*Key Features and Functionality:\*

1. \*User Authentication and Authorization:\*

- User registration and login functionality.

- Role-based access control to manage permissions.

2. \*Dashboard:\*

- A customizable dashboard displaying tasks, projects, and deadlines.

- Overview of tasks assigned, tasks due, and completed tasks.

3. \*Task Creation and Organization:\*

- Create and categorize tasks with titles, descriptions, due dates, and priorities.

- Assign tasks to individuals or teams.

- Tagging and labeling tasks for easy categorization.

4. \*Project Management:\*

- Create projects to group related tasks together.

- Assign team members to projects.

- Track project progress, deadlines, and milestones.

5. \*Task Tracking:\*

- Real-time task status updates (e.g., to-do, in progress, completed).

- Task dependencies and subtasks to manage complex workflows.

6. \*Notifications and Reminders:\*

- Automated notifications for task assignments, due dates, and updates.

- Reminders via email, push notifications, or in-app alerts.

7. \*Search and Filters:\*

- Robust search functionality to find tasks and projects quickly.

- Filtering options based on status, priority, assigned user, and more.

8. \*File Attachments:\*

- Attach files, documents, or links to tasks and projects for reference.

- Integration with cloud storage for seamless file management.

9. \*Reporting and Analytics:\*

- Generate reports on task and project progress.

- Visualize data with charts and graphs for performance analysis.

10. \*Mobile Accessibility:\*

- Responsive design for access on various devices (smartphones, tablets).

- Mobile app compatibility for on-the-go task management.

11. \*Serverless Backend:\*

- Utilizes serverless computing services like AWS Lambda, Azure Functions, or Google Cloud Functions.

- Auto-scaling to handle varying workloads without manual intervention.

- Reduced infrastructure management and cost efficiency.

12. \*Data Security and Backup:\*

- Data encryption and secure authentication.

- Regular data backups and disaster recovery procedures.

13. \*Customization and Integration:\*

- Customizable task and project templates.

- Integration with third-party tools like email, project management, and productivity apps.