CertiTrack   
Documentation

**Hack Challenge:**

When employees express the desire to pursue certifications, they frequently encounter difficulties in locating colleagues within the organization who can offer guidance or grant access to resources to support their certification journey.

**Problem Statement:**

Within our organization, employees who aspire to obtain certifications often face challenges in identifying suitable mentors or accessing the necessary resources to assist them on their certification path. This lack of guidance and resources delays their professional development and may result in missed opportunities for both the individuals and the company. How can we facilitate a more seamless and efficient process for employees seeking certification support within the organization?

**Proposed Solution:**

The CertiTrack project aims to simplify the certification process for employees while fostering a culture of mutual support and learning. This will be achieved through a user-friendly web application designed to serve several key functions:

**1. Certification Tracking:**

The application will enable employees to easily keep tabs on their certifications. They can see which certifications they've completed and which ones they're working towards.

**2. Peer Guidance:**

Employees will be able to connect with their colleagues who have already completed specific certifications. This feature encourages knowledge sharing and mentorship within the organization.

**3. Mentor Matching:**

To facilitate guidance, the application will help employees find suitable mentors within the company who can assist them on their certification journey.

**4. Q&A Forum:**

An interactive Q&A forum will be available for employees to ask questions and seek answers related to certifications. This creates a collaborative environment for problem-solving.

**5. Learning Resources:**

The application will house a repository of valuable materials and learning paths that employees can access to enhance their certification preparation.

**6. Managerial Oversight:**

Managers and team leads will have the capability to assign and track the certification progress of their team members, streamlining the certification management process.

By implementing these features, the CertiTrack project aims to empower employees to pursue certifications with confidence, while also strengthening the organization's overall knowledge-sharing and professional development ecosystem.

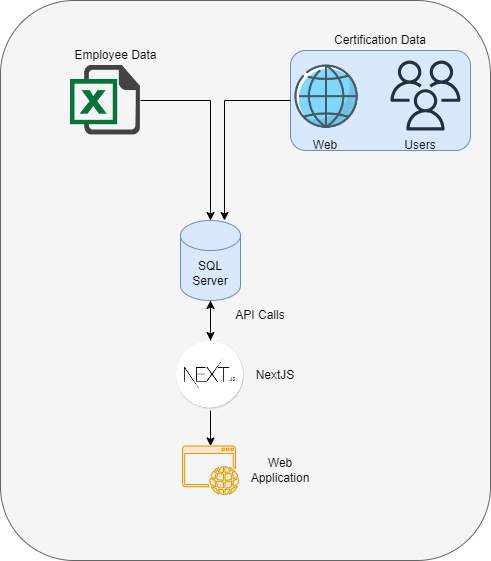
**Business Use cases:**

1. **Who are your customers:**

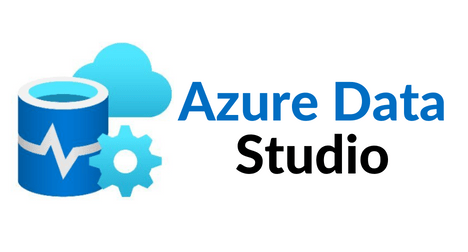
* **Internal Employees:** Employees seeking certifications and professional development.
* **Managers and Team Leads:** Those managing teams and tracking certification progress.
* **Organizations:** The company itself, benefiting from a more skilled and certified workforce.

1. **Current Competitors:**
   * LinkedIn
   * Stack Overflow
2. **How are you planning to launch this project?**
   * Start with an internal soft launch for early adopters.
   * Create awareness through internal communication channels.
   * Conduct training sessions for employees.
   * Establish a feedback mechanism for improvements.
   * Gradually roll out to all employees.
   * Promote mentorship within the platform.
   * Ensure data security and privacy measures are in place.

**Architecture:**

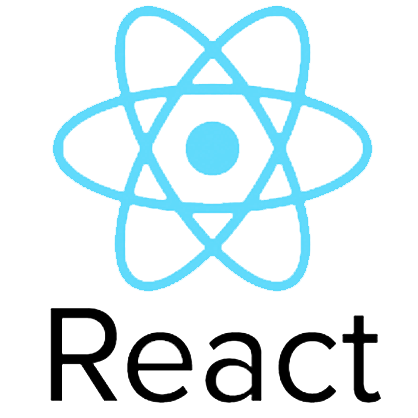


**Technology Stack Used:**

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**SQL Agent**​





**Roles:**

* Avinash Bevara –
* Ram Giduturi –
* Karthik Mediboina –
* Ravi Varma Yalamanchili –

**Cross skilling: Upskilling:**

* SQL Server
* Azure Data Studio
* Python
* React
* Git
* FastAPI

**Implementation Details:**

Example: Module-1: Front end: Packages used, Tasks performed, Major Achievements, Features Promised, Features Achieved, etc.

Module-2: Backend: Packages used, Tasks performed, Major Achievements, Optimized solutions, Features Promised, Features Achieved, etc

**Process Flow:**

**Github Link:**

<https://git.techigai.io/hackathon-2023/certitrack-innovators/test-project>

**Demo Link:**

Share point project URL

**Future Scope:**

1. **Coupons Notifications using Web Scraping:**

* Implement a feature that uses web scraping techniques to gather information about available discounts, promotions, and coupons related to certification exams and training programs.
* Notify users within the CertiTrack application about these costsaving opportunities, helping them minimize expenses associated with certifications.

1. **Reimbursement of Certification Cost:**
   * Develop a functionality within CertiTrack to facilitate the reimbursement process for certification costs incurred by employees.
   * Streamline the reimbursement request submission, approval, and tracking process, ensuring that eligible employees receive financial support for their certification endeavors.
   * Implement clear policies and guidelines for reimbursement eligibility to manage costs effectively.

These future scope enhancements aim to further enhance the value and utility of the CertiTrack application, making it a comprehensive platform for certification support, cost savings, and seamless integration into the organization's existing ecosystem.

**Conclusion:**

In conclusion, the CertiTrack project is poised to revolutionize how our organization approaches certification management and employee development. By offering a user-friendly web application that tracks certifications, encourages mentorship, and provides valuable resources, we are setting the stage for a more efficient and collaborative environment.

CertiTrack is not just a tool; it's a catalyst for positive change. It empowers our internal employees, managers, and the organization as a whole by fostering a culture of knowledge-sharing and growth. As we embark on this journey, we look forward to witnessing the profound impact it will have on our employees' career trajectories and the overall success of our organization. With CertiTrack, we're not just managing certifications; we're nurturing a thriving learning ecosystem.

**Acknowledgement:** (optional)

**References:** (optional)