MINI PROJECT SEMINAR
ON
TEAM TRAVEL PLANNING TOOL

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Description:

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Introduction:

- Travel planning for team whether for corporate events, conferences, or group excursions can be a complex and time-consuming task.

- Coordinating schedules, booking flights, managing accommodations, and ensuring that everyone's needs are met requires a tool that can simplify and streamline the process.

- The Team Travel Planning Tool is designed to address these challenges by providing a centralized platform for organizing and managing team travel efficiently.

- It help to tackle specific problems such as car parking pressures or road safety issues.

- It capture itinerary information and implement robust risk management measures.

Objective:

- ## Enhance Collaboration :

  Enable real-time collaboration among team members by allowing them to contribute to the travel plan, share preferences, and suggest modifications, ensuring the itinerary suits everyone's needs.

- ## Optimize Time and Resource Management :

  Minimize the time spent on booking, organizing, and managing travel plans by automating key processes like flight and hotel reservations, reducing the administrative burden on team leaders or travel coordinators.

- **Streamlined Itinerary Creation :**

  Easily plan and organize a complete travel itinerary, including flights, accommodation, and activities.

- **Collaboration and Communication :**

  Enable team members to collaborate, suggest changes, and communicate regarding trip details in real-time.

- **Budget Management :**

  Track travel expenses, set budgets, and ensure that the trip remains cost-effective.

- Travel Approvals and Permission :

    Facilitate approvals from managers or relevant stakeholders for travel plans, accommodations, and expenses.

- Centralized Information :

    Provide a centralized platform for storing travel documents, tickets, confirmations, and emergency contacts.

- Task Assignment and Delegation :

    Assign roles and responsibilities to different team members (e.g., booking flights, reserving hotels.

Methodology:

- Agile Methodology :

➢ Agile can be used to manage the development process. Teams work in iterative cycles (sprints) to build features incrementally.

➢ Scrum or Kanban boards to manage tasks and keep track of project progress.

- **Tools for Project Management and Collaboration :**

➢ Trello, Jira, or Asana: For tracking features, tasks, bugs, and user stories.

➢ Slack or Microsoft Teams: For team communication and collaboration during the development and testing phases.

➢ Confluence: For maintaining documentation related to the project.

- **Software Development Programming Languages:**

➤ Depending on the platform (web or mobile):Java Script/ TypeScript: For web-based applications (React, Angular, Vue.js).

➤ Swift (iOS) and Kotlin (Android) for mobile app development.

➤ Python or Node.js for server-side logic and backend processes.
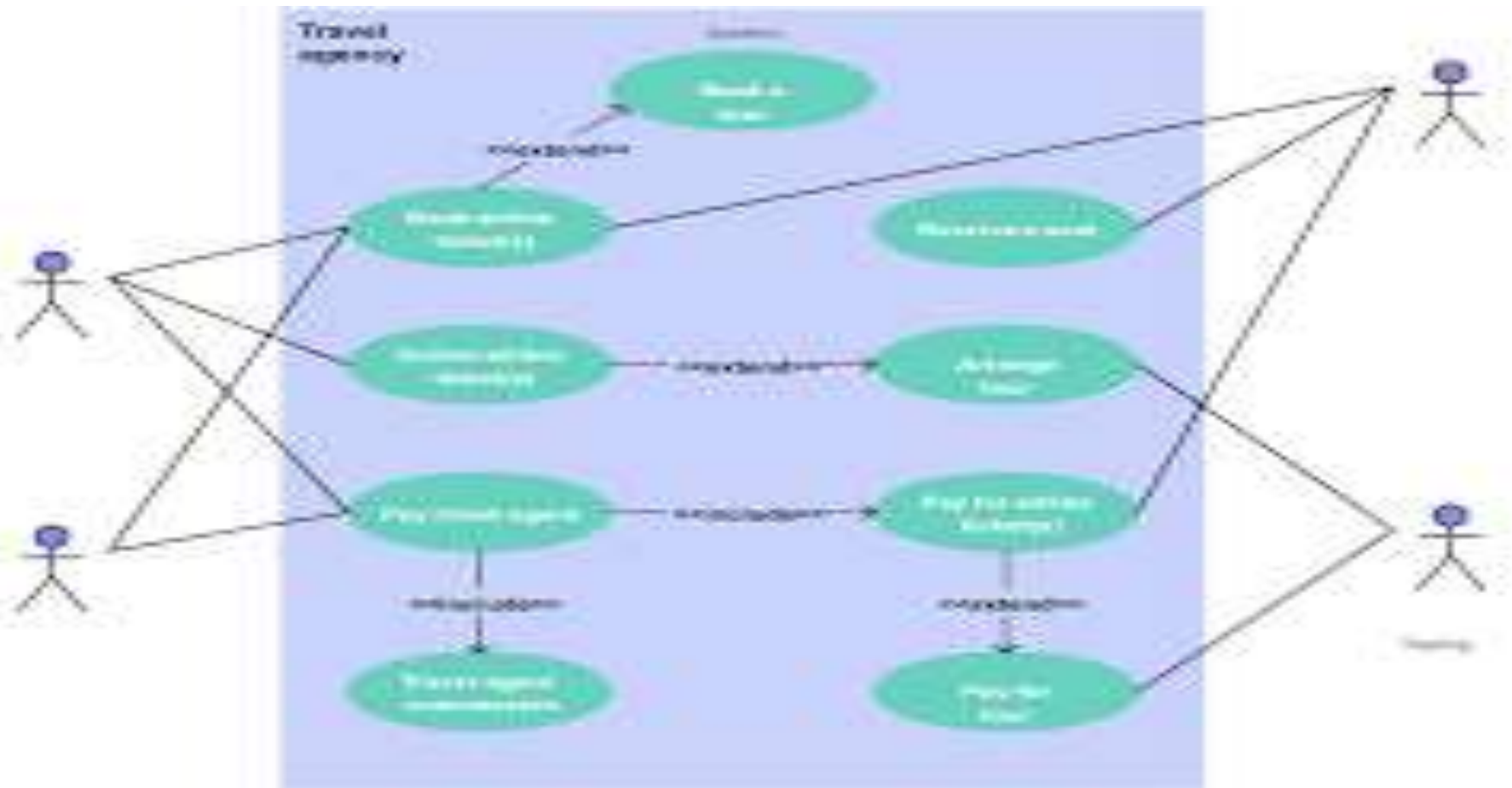
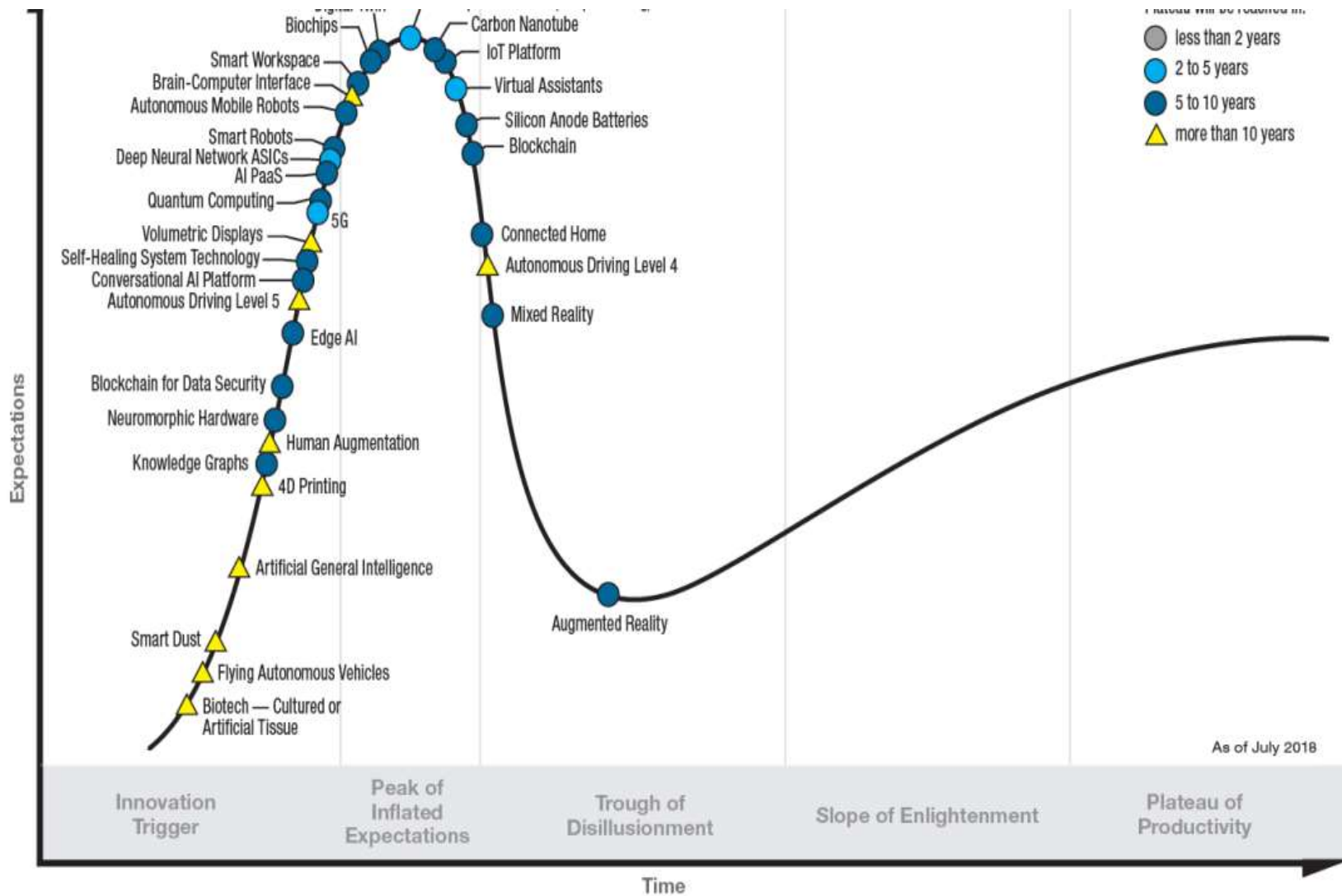# Results/Finding:

- Increased Efficiency:

   Teams report reduced time spent on travel logistics due to streamlined planning processes.

- Enhanced Communication:

   Improved coordination among team members leads to fewer misunderstandings and last-minute changes.

Travel Agency

Gartner Hype Cycle for Emerging Technologies, 2018

Plateau will be reached in:
- ○ less than 2 years
- ○ 2 to 5 years
- ● 5 to 10 years
- △ more than 10 years

Technologies plotted along the curve:

- Biochips
- Digital Twin
- Carbon Nanotube
- Smart Workspace
- IoT Platform
- Brain-Computer Interface
- Virtual Assistants
- Autonomous Mobile Robots
- Silicon Anode Batteries
- Smart Robots
- Blockchain
- Deep Neural Network ASICs
- AI PaaS
- Quantum Computing
- 5G
- Volumetric Displays
- Connected Home
- Self-Healing System Technology
- Autonomous Driving Level 4
- Conversational AI Platform
- Autonomous Driving Level 5
- Mixed Reality
- Edge AI
- Blockchain for Data Security
- Neuromorphic Hardware
- Human Augmentation
- Knowledge Graphs
- 4D Printing
- Artificial General Intelligence
- Smart Dust
- Flying Autonomous Vehicles
- Augmented Reality
- Biotech — Cultured or Artificial Tissue

Phases (x-axis): Innovation Trigger | Peak of Inflated Expectations | Trough of Disillusionment | Slope of Enlightenment | Plateau of Productivity

Y-axis: Expectations
X-axis: Time

As of July 2018

➢ Concur: Expense management software that includes travel planning features.

   Website: https://concur.com

➢ Kayak for Business: A travel management tool designed for teams.

   Website: kayak.com/business

Books:

❖ **"The Business Travel Handbook"** by Michael F. Smith: Offers insights into efficient travel planning and management.

❖ **"Travel Management: A Handbook for Travel Managers"** by Alana D. Mohr: Discusses best practices for corporate travel.

❖ **"Corporate Travel Management"** by Eric S. Turner: Covers strategies for optimizing business travel.

Conclusion :

- the team travel planning tool offers a streamlined solution for organizing group travel, ensuring efficiency, and minimizing logistical challenges.

- By centralizing booking, scheduling, and expense tracking, the tool enhances coordination among team members, reduces time spent on manual tasks, and provides valuable data insights for optimizing future trips.

Reference:

- Online Tools:

➢ TripIt : An itinerary management tool that organizes travel plans in one place.

  Website : tripit.com

➢ TravelPerk : A comprehensive travel management platform for businesses.

  Website : travelperk.com

```python
import unittest

# Assuming you have the classes Team, TravelDetail, and Expense defined
in app.py
from app import Team, TravelDetail, Expense

class TestTravelPlanning(unittest.TestCase):

    def setUp(self):
        self.team = Team("001", "Team A")
        self.travel = TravelDetail("T001", "Paris", "2024-09-01",
"2024-09-10")
        self.expense = Expense("E001", 100, "Accommodation", "Hotel
stay in Paris")
        self.team.add_travel(self.travel)

    def test_add_travel(self):
        self.assertIn("T001", self.team.travels)
```

Thank You