Patent Search

Invention Title	System And Method For Smart Luggage Cloak And On-Demand Delivery
Publication Number	20/2026
Publication Date	15/05/2026
Publication Type	INA
Application Number	202641057380
Application Filing Date	06/05/2026
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06Q 10/02, G06Q 10/08, G06Q 50/28, G06Q 30/06, G06K 7/14

Inventor

Name	Address	Country
I Kali Pradeep	Associate Professor, Department of CSE, Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India
A. Venkata Sai Mahathi	Student, Department of CSE, Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India
B. Bhuvana	Student, Department of CSE, Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India
A. Sai Leela Sree	Student, Department of CSE, Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India
B. Venkata Sai Pranav	Student, Department of CSE, Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India
B. Sri Teja	Student, Department of CSE, Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India

Applicant

Name	Address	Country
Vishnu Institute of Technology	Vishnu Institute of Technology, Sri Vishnu Education Society, Vishnupur, Bhimavaram, Andhra Pradesh 534202	India

Abstract:

The present disclosure relates to systems and methods, and provides a smart luggage cloak and delivery system (100) configured to integrate luggage pickup, secure tracking, authenticated verification, and on-demand delivery within a unified digital platform. The smart luggage cloak and delivery system (100) includes a traveler m application (102), a delivery partner management module (104), a secure storage hub infrastructure (106), a GPS-enabled tracking module (108), and an OTP and QR c authentication mechanism (110). Upon a traveler booking, the delivery partner management module (104) assigns the nearest verified delivery partner, the OTP and authentication mechanism (110) confirms secure handover, and the GPS-enabled tracking module (108) provides continuous luggage monitoring during transit. This achieves a cost-effective, transparent, and scalable alternative to conventional cloakrooms and ad-hoc luggage solutions.

Complete Specification

Description:TECHNICAL FIELD
[001] The present invention relates to the field of smart logistics and travel assistance systems, and more particularly to a System and Method for Smart Luggage Cl
On-Demand Delivery configured to integrate technology-driven luggage pickup, secure storage, real-time tracking, and on-demand delivery through an integrated n
and cloud-based ecosystem.
BACKGROUND
[002] The field of smart logistics and travel assistance systems has witnessed significant development in recent years, driven by increasing urbanisation, rising touri
the proliferation of short-duration travel facilitated by rail and air networks. Transit passengers, one-day tourists, and travelers with brief layovers constitute a grow
segment of the traveling population. These travelers typically require temporary management of their personal luggage for durations ranging from a few hours to a
day, during which they seek to explore cities, attend meetings, or undertake leisure activities without the encumbrance of heavy baggage. The management of lugg
during such short-duration transit periods represents a persistent logistical challenge that existing infrastructure has not adequately addressed in a technically inte
manner.
[003] Conventional luggage cloakroom facilities, typically found at railway stations and airports, may offer basic temporary storage; however, such facilities suffer fr
several well-documented operational limitations. These facilities typically operate during restricted hours and may not be accessible at all times of day, rendering th
unsuitable for travelers with early-morning arrivals or late-night departures. Furthermore, conventional cloakrooms rely on paper-based receipt systems that lack d
traceability, provide no mechanism for real-time monitoring of stored items, and offer no confirmation of luggage condition at the time of deposit. The absence of a

View Application Status

Page last updated on: 26/06/2019