

Informatic Institute of Technology

in Collaboration with

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“Crypto Traveler”

Blockchain Base Decentralize Platform

with Automated Responsible Party

A Dissertation By

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## Abstract

Blockchain is one of the most emerged technology which is making a significant influence on most of industries including tourism. Blockchain technology is still at the infancy stage of development, but component such as smart contract, decentralized application, cryptocurrency can make huge impact on tourism industry. As well as today's business world try to use blockchains as brand recognition to their companies, services, and products. Business worlds believe that blockchain based system will enhance the growth of their business and it will be customer loyalty solution. Traditional booking system mainly focus on to basic functionalities of tourism, but due to rapid growth in this industry functionalities should be modified in an advance manner. Proposed system mainly focusses on avoiding third party authority's involvement to the system, personal data security, transaction traceability, proper validation mechanism and increase the trust of the users. Booking system should be able to maintain both travelers and property owners' requirements. The design system is mainly design as mobile - based blockchain application and system is model using solidity language. The implemented prototype, Crypto-Traveler on the base of Ethereum ecosystem.

Keywords: Smart Contract, Decentralized, Third – Party authorities, cryptocurrency, Ethereum