الجمهورية الجزائرية الديمقراطية الشعبية

République Algérienne Démocratique et Populaire

وزارة التعليم العالي والبحث العلمي

Ministère de l'Enseignement Supérieur et de la Recherche Scientifique

المدرسة العليا للإعلام الآلي 08 ماي 1945 – سيدي بلعباس

Ecole Supérieure en Informatique

-08 Mai 1945 Sidi Bel Abbes

Mémoire de Fin d'étude

Pour l'obtention du diplôme d'**ingénieur d'état**

Filière : **Informatique**

Spécialité : **Ingénierie des Systèmes Informatiques (ISI)**

Dans le cadre d'un diplôme - une startup / un diplôme - un brevet

Thème

Développement d'une plateforme pour la gestion des locations touristiques.

Présenté par **:**

- Mr Idris CHAALEL
- Mr Abdessamie SELAMA

Soutenu le : **08/07/2023**   Devant le jury composé de :

- M/Mme/Mlle BENCHERIF Khayra   Président
- Pr BENSABER Djamel Amar   Encadreur
- M/Mme/Mlle TAOULI Amina   Examinateur
- Mr KECHAR   Représentant de l'incubateur
- M/Mme/Mlle   Représentant du partenaire économique

Année Universitaire : 2022 / 2023

ABSTRACT

In recent years, the tourism industry has undergone a significant transformation, with the emergence of online platforms for booking and managing vacation rentals. As more and more people turn to short-term rentals for their travel accommodation needs, there is a growing demand for platforms that make the process of managing rental properties easier for property owners and more convenient for renters.

This document discusses the development of a platform designed to meet these needs, with a particular focus on the creation of a recommendation system that provides personalized suggestions for travelers. The platform aims to simplify the rental process, allowing property owners to manage their listings more efficiently while providing renters with an easy-to-use platform for booking their vacations.

The development of the platform was driven by a range of technical considerations, including data management, algorithm development, and user interface design. Data management was particularly important, as the platform needed to be able to handle large volumes of data from multiple sources, including property listings, user profiles, and booking histories. Algorithm development was also critical, as the recommendation system needed to be able to process this data and generate accurate and relevant recommendations for individual users.

User interface design was also a key consideration, as the platform needed to be easy to use and navigate, with clear and intuitive features that would enhance the user experience. To achieve this, the design team focused on creating a clean and simple interface that would be accessible to users with a range of technical abilities.

Overall, the development of the platform and the recommendation system represents a significant step forward in the management of tourist rentals. By simplifying the rental process and providing personalized recommendations for travelers, the platform has the potential to transform the way people plan and book their vacations. In addition, it has the potential to generate significant economic benefits, by providing property owners with a new revenue stream and helping to support local tourism industries.

THANKS

I am incredibly grateful for the opportunity to have worked on this project with my colleague Abdessamie SELAMA. We would like to begin by thanking the almighty God for his unwavering love, guidance, and protection throughout our lives.

We owe a debt of gratitude to our families for their unconditional love and support. Our parents, siblings, and extended family members have been our pillars of strength, always there to offer guidance, encouragement, and a listening ear.

We are deeply grateful to our mentors and supervisors, who have been instrumental in helping us to develop our skills and achieve our goals. Their unwavering support, guidance, and encouragement have been invaluable to us, and we could not have reached this point without them.

We would also like to thank our colleagues and friends, who have been a source of inspiration and support throughout this project. Your friendship and camaraderie have made this journey all the more rewarding.

Finally, we would like to express our gratitude to all the teachers and educators who have helped us to develop our skills and knowledge. Your passion and dedication to education have been instrumental in shaping us into the people we are today

DEDICATION

"To our parents, who have always been our biggest supporters and motivators. Your unwavering love and encouragement have been the driving force behind our success. Thank you for instilling in us the values of hard work, perseverance, and determination.

To all our family for their unfailing support,

To all my friends and colleagues at ESI with whom I have shared the most beautiful moments, for their support throughout my academic background,

To all who are dear to me,

THANKS"

Abdessamie & Idris

ACRONYMS

RS Recommendation System .

CF Collaborative Filtering.

CB Content-based Filtering.

FAIR Findable, Accessible, Interoperable, Reusable.