

**Future University in Egypt**

**Faculty of Computers and Information Technology**

**Department of Computer Science**

Graduation project

**Real state system**

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**Introduction:**

Technology and internet have changed the face of the earth with all the new applications aiming to make our life easier and save our time.

Booking websites have become popular but despite that customers still search for properties through real estate brokers. However, the renting business has a lot of problems like: Difficulty managing properties due to outdated and disorganized data that lead to data loss, inability to meet customer’s requirements and market property efficiently due to lost or lacking data, owners of properties facing difficulties finding customers of their properties, properties displayed in an unattractive traditional way that does not assure customer of the property level, inability to review rent history of each property, analysis and compare rent, inability to review each property or see past review for property.

Therefore, both customer and owner of property face difficulty finding what they are looking for which causes cooperation to lose customers and owners due to dissatisfaction.

Our aim in this project is to create a system to manage and organize cooperation processes with a web application and a mobile application that provides customer with a reliable credible booking system that is simple and easy to navigate. while providing owners of properties with a platform to market their properties and turn managing their properties into an organized and effortless task.

**Problem Definition:**

1. Difficulty managing properties due to outdated and disorganized data.
2. Difficulties in saving customers data leads to data loss.
3. Difficulties in saving data of available properties can lead to inability to meet customer’s requirements and market property efficiently.
4. Owners of properties face difficulties finding customers of their properties.
5. Properties are displayed in an unattractive traditional way that does not assure customer of the property level.
6. Inability to review rent history of each property, analyse and compare rent.
7. Inability to review each property or see past review for property.
8. Conflict in property scheduling due to poor coordination between different property managers.
9. Difficulties in money transactions.
10. Poor financial management.
11. Customers face difficulties finding a property with their specific requirements.
12. Property agreed upon with broker is not guaranteed to be as requested.
13. Information given to customers by brokers are not always reliable.
14. Difficulty coordinating with bus drivers.

**Introduced Solution:**

1. System will organize owner’s and properties records in an organized manner.
2. Properties are marketed to customers according to their preferences and type.
3. Records of properties are saved in system and reports are provided to owner of property.
4. Each property is reviewed by past customers after their stay is over.
5. Property scheduling is maintained efficiently by system.
6. Money transactions are automatically calculated.
7. Properties reviews are monitored to check reliability of presented information of each property.
8. Properties are marketed using virtual tool.
9. Owners and properties of continuous negative reviews are banned from the system.
10. Bus and transportation services are provided to customers.

**Objectives:**

1. An efficient and organized database for system
2. Simplicity of display for owner’s property
3. System efficient that owners find it easier to manage their properties through our system.
4. System is user friendly that customers find it easier to book through our system than calling a real estate broker.
5. Automated managing and calculation for owner.
6. Accurate recommendation for best choice of property to customer depending on their preferences and their entered data.
7. Reliable system that mostly guarantees customer and owner satisfaction.

**Requirements**:

1. System will contain three users.

2. Customer can rent a property.

3. Customer can cancel the rent.

4. Customer can extend their rent period.

5. Customer must pay deposit.

6. Customer payment.

7. Customer can rate the property.

8. Customer can rate our services.

9. Customer can rate dealing with owner.

10. Owner can display their property for rent.

11. Owner can cancel their property from renting.

12. Owner can update details of their offered property on the system.

13. Owner can enter schedule of property whether property is available or busy.

14. Owner can review history of each property.

15. Owner can update schedule of property.

16. System shows properties of the owner if available or busy.

17. Text area for the owner of each property to add their special notes.

18. Add all information of all properties of the owner in one report.

19. Owner can rate the customer.

20. System can send notification to owners.

21. System can send notification to customers.

22. Blacklist for unprofessional owners.

23. Blacklist for unprofessional customers.

24. Service chat.

25. Display rules of rent for the properties.

**Tools, Target Environment:**

Front end: Angler.

Back end: PHP / Laravel.

Database management system: MSQL.

Mobile: Android.

**Team members:**

Team leader: Omnia Ahmad.

Mobile group: Abdelaziz Gohar,Ali Ahmed.

Web group: Omnia Ahmad, Abdelaziz Fayed, Shaimaa Siraj.