

Appendix B : Class Diagram DiscoverDeck

Version 1.0

Prepared by Team 8

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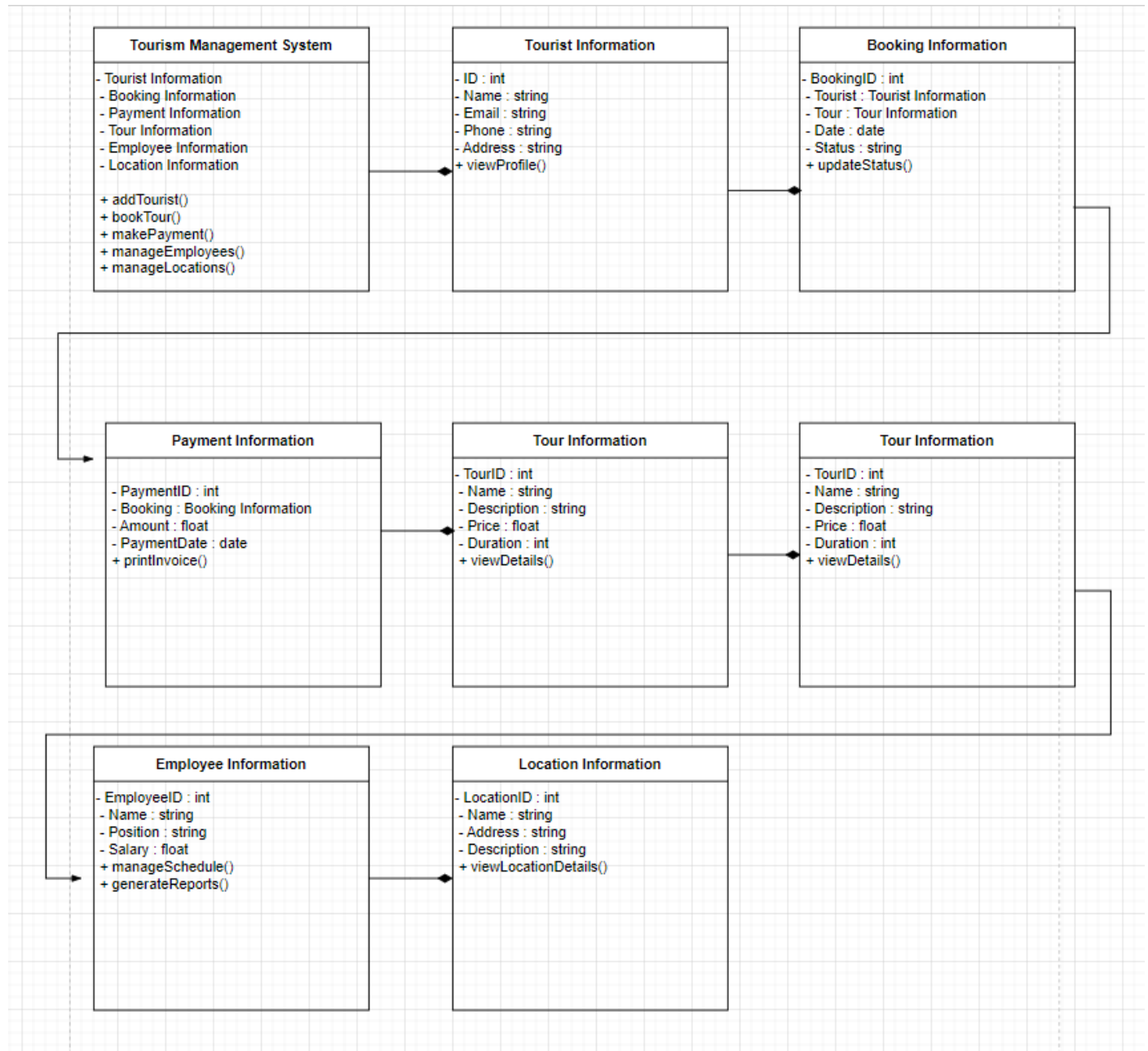
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6.2 Appendix B
Analysis Models

Class Diagram for DiscoverDeck



The class diagram for DiscoverDeck encapsulates the main components of the application, illustrating the interactions between different classes to deliver a comprehensive travel and tourism service in Bangladesh.

Class Highlights:

Tourist Information : Central class encompassing details of each tourist, with emphasis on bookings, tours, and location preferences.

Booking Information : Focused on maintaining the details of individual bookings made by tourists. Direct associations with Tourist and Tour Information demonstrate its central role in the system.

Payment Information : Manages the financial aspect of the platform, tracking amounts, payment dates, and the corresponding bookings.

Tour Information : Contains details of available tours, including their duration, pricing, and a comprehensive description.

Employee Information : Highlights the management and administration side of the system, detailing the roles, responsibilities, and functions of employees.

Location Information : Offers a database of different locations or destinations available for tours. It serves as a directory of travel spots.

Interactions:

1. Booking to Tourist : A booking always corresponds to a tourist, ensuring the user's identity and preferences are always considered.
2. Booking to Tour : This shows how each booking refers to a specific tour, aligning users with their chosen travel experiences.
3. Payment to Booking : The connection between payments and bookings ensures a clear financial record of each travel engagement.
4. Employee to Tourist : This relationship suggests employees have functions that directly interact with or serve the tourist users.
5. Location to Tour : Demonstrates how each travel spot or location is a potential tour experience for users.

Use Cases:

1. Tourists can add themselves to the system, book tours, and manage their bookings.
2. Payments are made for bookings, and the system can print invoices for the same.
3. Employees play a role in managing schedules, generating reports, and interacting with tourists.
4. Each tour has its unique details and can be viewed by interested users, providing them with comprehensive tour information.

5. Locations or travel spots are documented with descriptions, allowing tourists to view details and make informed choices.

This class diagram successfully maps out the essential components of the Tourism Management System, setting a clear path for both development and implementation, ensuring a cohesive structure that can be easily navigated and understood by all stakeholders.

This diagram serves as a foundational blueprint for developers and stakeholders, ensuring a shared understanding of the application's structure and functionalities.