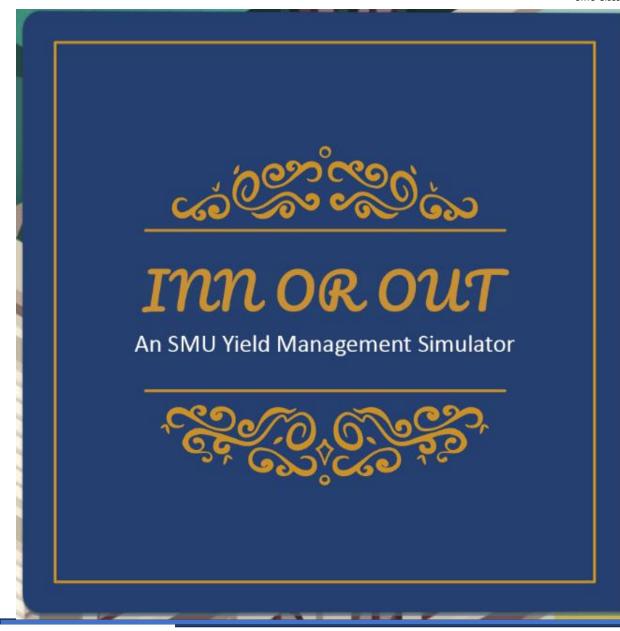
Inn or Out Yield Management Simulator

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Learning Innovation Festival 2023

Marcus Ang

This is a required field.

Host Game

Join Game

The development of this application was funded through SMU's Technology Enhanced Learning Fund, organised and support by the Centre for Teaching Excellence.

Faculty Lead Associate Professor Marcus Ang Developer

Rustbucket Interactive







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Content

- Introduction
- A SMU Yield Management Simulator
- Learning points



Motivation

- "The most expensive room is an empty room"
- Preference of <u>various customer segments</u> and <u>demand seasonality</u> contributes to the challenges of the management of hotel rooms
- The Inn or Out Yield Management Simulator is an inclass simulation where students take on the role of a hotel manager in charge of room bookings and check-in





Game flow

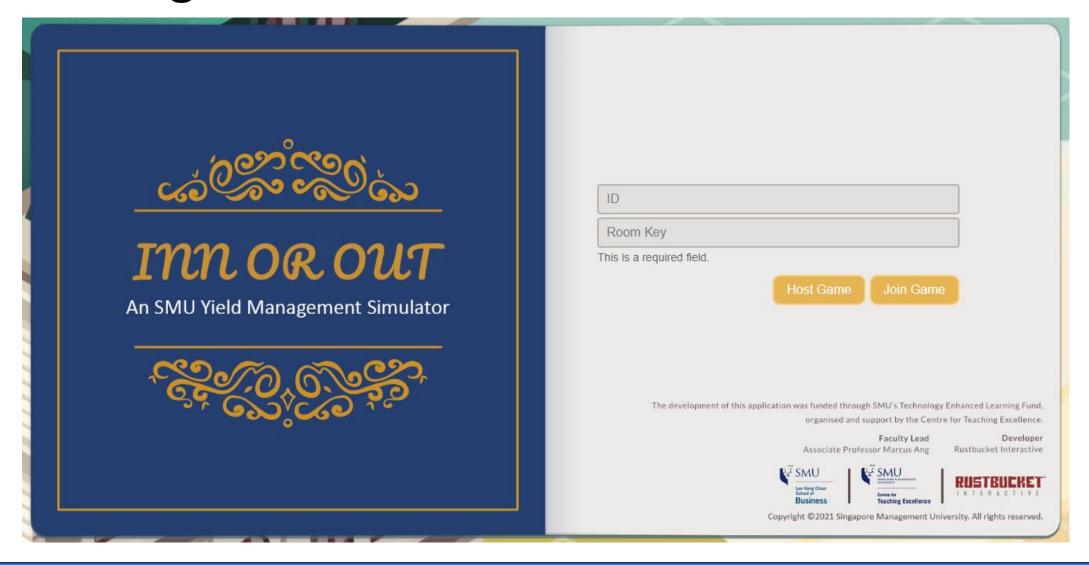
 Throughout the game, students will be prompted with guests with various profiles and the amount they will be willing to pay

 Students will then have to decide whether to accept or reject the booking

 At the end of the game, students will be rewarded for efficiently utilizing the allocated room. There will be penalties for overbooking and empty rooms

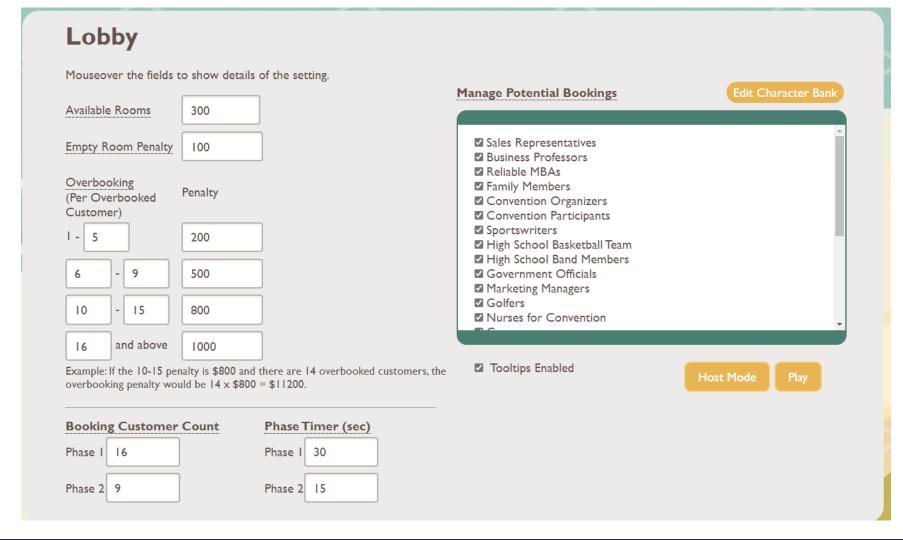


Start the game



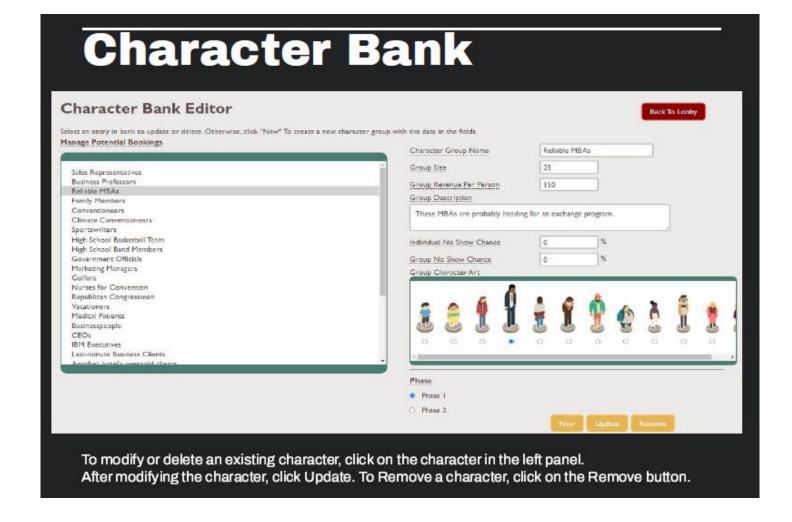


Customizing the game (instructor)





Customizing the character bank (instructor)





Game play

There are two phases of customer arrivals

- Phase 1 (about 60 days before the hotel stay)
 - Customers are usually leisure travelers who book their stay well in advance

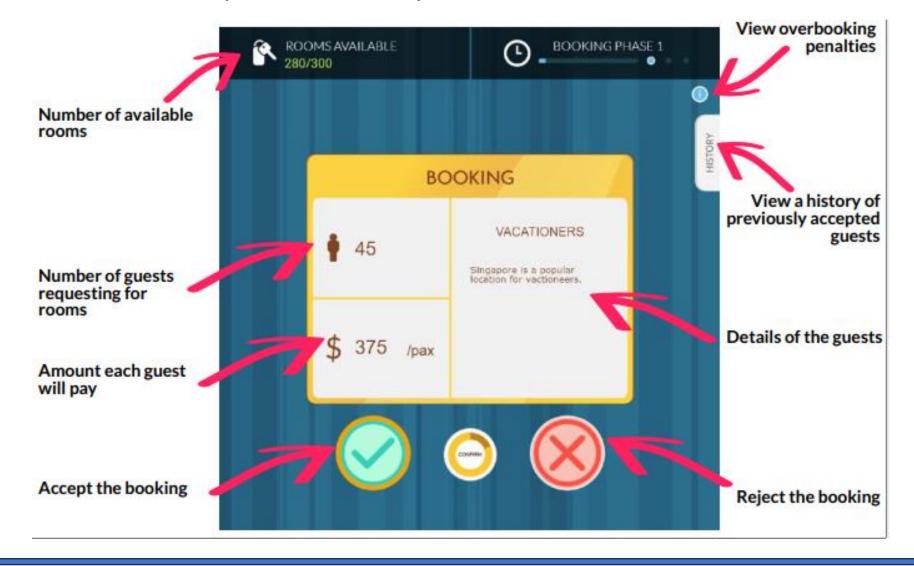
- Phase 2 (last-minute bookings)
 - Customers are usually business travelers who are more time sensitive but do not mind paying more for the hotel stay



Inn or Out

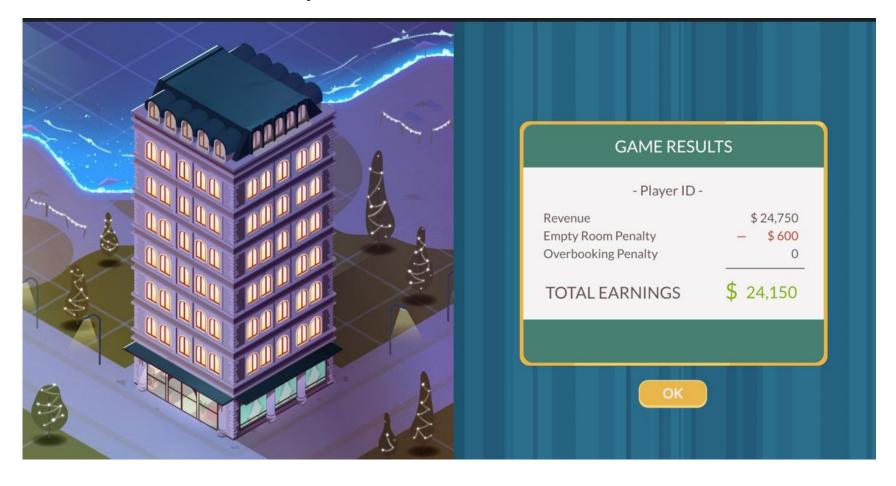
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Game interface (student)





Check-in Phase/Game results



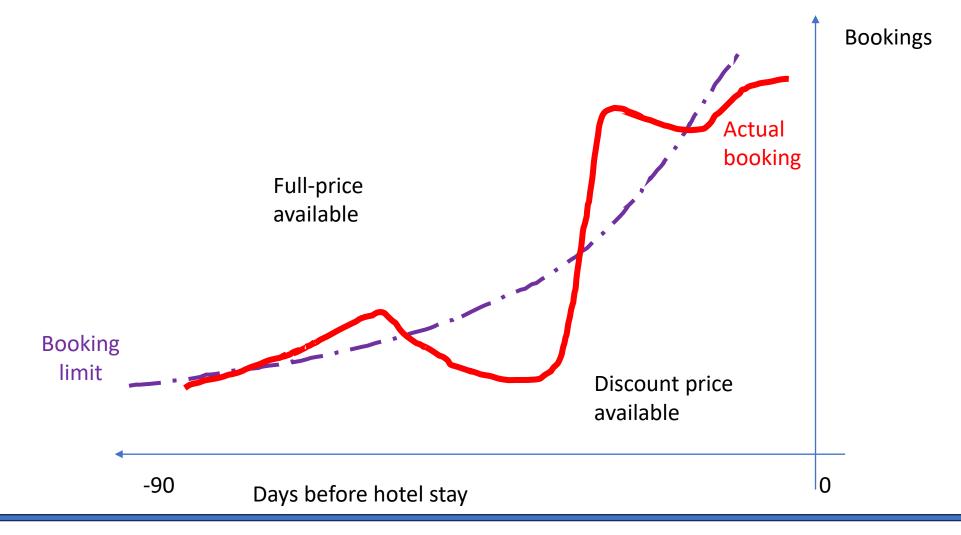


Leaderboard





Theory behind the game





Inn or Out

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Learning points for students

• "How many rooms should I reserve for Phase 2?"

Impact of different customer segments

• Finding the balance between Phase 1 and Phase 2



