W Step

We have been commissioned to create a hotel management application. We need a web portal that allows people to book an available room. We also need a desktop app for when they check in.

We need to create a minimum viable product (MVP) that will allow the customer to get going and to identify what features should be added later.

* Hotel Management App
* Web Portal
  + Allow guests to book rooms
  + We have to know if rooms are available
* Desktop App
  + The guest will check in via the desktop app
  + We need to be able to look up guest reservations by name or other piece of information.
* This is an MVP

O Step

# Things for the MVP

* ASP.NET Core Razor Pages
* Web page – Searching for a room
  + Start Date
  + End Date
  + Displays list of hotel room types that are available
  + User can choose one to book
* Web page – Book room
  + Takes room from search page
  + Ask for guest Info (name)
  + Book upon submission
* WPF Core Desktop App
* WPF page – Search for user
  + Search by last name and use today’s date
  + Display a list of matching reservations
  + Have a button that checks in a guest
* SQL Server data storage

# Things for a future version

* Authenticate guests
* Guest history
* Multiple hotel capabilities
* Allow guests to check out
* Allow booking search by reservation number or other pieces of information
* Allow data to be stored in other database types like SQLite

# Assumptions that were confirmed

* One hotel only
* Guests book a hotel room type, not a specific room
* A hotel employee will check guests in
* Booking search is done by last name

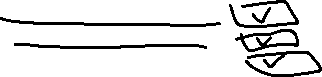
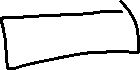
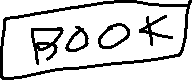
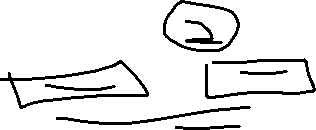
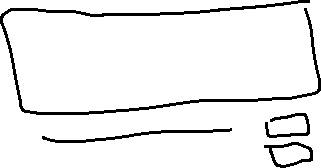


* Check in means we just mark that they are at the hotel
* Data will be stored in SQL Server



* No API middle layer
* Use the latest .NET technologies

U Step



# Missing Pieces / Future version ideas

* Web – confirmation page
* Web – confirmation email
* WPF – confirmed checked in
* Cost of room
* Check in payment
* Invoice

L Step

# Tricky bits

* ASP.NET Core Razor Pages
  + Form catpure
  + Display lists of info
  + Link with data
  + Multiple pages
  + Talking to SQL
* WPF Core Application
  + Capture form information
  + Display Lists of information (DataGrid?)
  + Lists of buttons
  + Talking to SQL
* SQL Server
  + Create a database
  + Create tables
  + Create CRUD queries
  + Prepopulate data
* Deploying Stuff
  + ASP.NET web app
  + WPF desktop app
  + SQL database

D Step

# Room Type Data

* Room Type Id
* Room Type Name
* Room Type Description

# Room Data

* Room Id
* Room Number
* Room Type Id

# Person Data

* Person Id
* First Name
* Last Name

# Booking Data

* Booking Id
* Person Id
* Room Id
* Start Date
* End Date