

System Design - CSCC01 Sprint 2

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Changes

CRC Cards

- 1) Added variables and methods to MainController
- 2) Added variables and methods to Itinerary
- 3) Added variables and methods to ItineraryItem
- 4) Added variables and methods to Event
- 5) Added variables and methods to Transportation
- 6) Added variables and methods to User
- 7) Added variables and methods to GoogleMaps
- 8) Added Time card

System Design

- 1) Changed database from SQL to MongoDB

CRC Cards

MainController	
<ul style="list-style-type: none">• Can get an itinerary• Can view an itinerary• Can add an event to an itinerary• Can edit the time of an event• Can edit the location of an itinerary• Can change the budget for an itinerary• Can change the radius for an itinerary• Can change the transportation type(s) for an itinerary• Can log in a user• Can register a user	<ul style="list-style-type: none">• Itinerary• GoogleMaps• User

CRC Cards

Itinerary	
<ul style="list-style-type: none">• Knows its start time• Knows its end time• Knows its home• Knows its location• Knows its maximum distance• Knows its activities• Knows its budget• Knows its schedule• Knows its visited events• Knows its method of transportation• Can get the next event in the schedule• Can get its schedule• Can get its start time• Can get its end time• Can get its home• Can get its location• Can get its maximum distance• Can get its activities• Can get its budget• Can set its start time• Can set its end time• Can set its home• Can set its location• Can set its maximum distance• Can set its activities• Can set its budget• Can set its schedule• Can set its method of transportation• Can get its visited events• Can get its method of transportation• Can get the amount remaining in the budget• Can get its current time• Can get the remaining distance• Can add an event• Can delete an event	<ul style="list-style-type: none">• GoogleMaps• ItineraryItem

CRC Cards

ItineraryItem	
Transportation, Event	
<ul style="list-style-type: none">• Knows its type• Knows its title• Knows its price• Knows its start time• Knows its end time• Knows its expected length• Can get its type• Can get its title• Can get its price• Can get its start time• Can get its end time• Can get its expected length• Can set its type• Can set its title• Can set its price• Can set its start time• Can set its end time	

CRC Cards

Event		ItineraryItem
<ul style="list-style-type: none">• Knows its location• Knows its activity• Knows its rating• Knows its image• Knows its description• Knows its id• Can get its location• Can get its activity• Can get its rating• Can get its image• Can get its description• Can get its id• Can set its location• Can set its activity• Can set its rating• Can set its image• Can set its description• Can set its id• Can calculate its score		

Transportation		ItineraryItem
<ul style="list-style-type: none">• Knows its distance• Knows its icon• Knows its subtitle• Can get its distance• Can get its icon• Can get its subtitle• Can set its distance• Can set its icon• Can set its subtitle		

CRC Cards

GoogleMaps	
<ul style="list-style-type: none">• Knows its key• Can get its transportation• Can get its possible events• Can filter events by price• Can obtain a price level for an event• Can get the time for an event• Can get its visited events• Can create an event• Can get its key• Can set its key	

User	
<ul style="list-style-type: none">• Knows its username• Knows its id• Knows its visited events• Knows its event ratings• Knows its itinerary• Can get an average rating for all events within a specific activity• Can get a rating for a specific event• Can get ratings for events• Can set ratings for events• Can check if an event has been visited• Can get its username• Can set its username• Can get its itinerary	<ul style="list-style-type: none">• Event• ItineraryItem

CRC Cards

Time	
<ul style="list-style-type: none">• Knows its year• Knows its month• Knows its day• Knows its hour• Knows its minute• Knows whether it is in the past or future (positivity)• Can check if it is less than another time• Can convert itself to minutes• Can add itself to another time• Can find the difference between itself and another time• Can convert itself to a string• Can get its year• Can set its year• Can get its month• Can set its month• Can get its day• Can set its day• Can get its hour• Can set its hour• Can get its minute• Can set its minute• Can get its positivity• Can set its positivity	

Software Architecture Design

REST Architecture:

<https://www.codecademy.com/articles/what-is-rest>

