

McKinsey
& Company

Coding Competition

Case deck

December 2019

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Agenda

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Instructions

2

Epics and user stories

Case definition and instructions

Key objectives

Build a mobile-first web application, which can be used by owners of a major benefit card to find the nearest sport place based on their preferences and where they can apply their benefit card.

(See next page for detailed epics)

Case solution

This case does not have only one correct solution.

Feel free to focus on areas you consider important, stretch the case definition and key objectives, add optional features (described later on in the PPT).

Use the data provided by McKinsey employees.

Case constraints

Make sure you code in open-source, e.g. Apache, MIT or similar licenses.

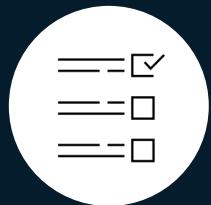
Case epics overview



Search for
a sports activity



Show
locations



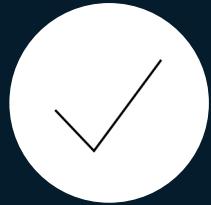
Choose
a place and its details



Route planning
to a chosen place



Send the chosen
place to friends



Scale your
application to millions
of users globally

Competition rules

Develop a complete solution to the presented problem

Code your solution using any open-source library or framework

Create a presentation that your team will present to the committee at the end of the day

There is no specific limit to your output, but it should not take more than 10 minutes to present your product to the committee. Solution that will take longer will be penalized

All solutions will be evaluated by McKinsey technology engineers

This case deck, together with the attached data files, provides you with basic information. You can, however, leverage any other source of information you may find helpful

All team members must be present the entire day. If all team members are not present, the team will be penalized



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Epics and user stories



Search for a sports activity

[M] = mandatory
[O] = optional

[M] As a User, I want to be able to choose a sport activity, even multiple ones, so that I can restrict my search only to facilities relevant for my preferences

[M] As a User, I want to select distance of my interest area from my current location, so that I can restrict my search only to facilities currently at my reach.

[O] As a User, I want to select distance of my interest area from a position selected on the map, so that I can restrict my search to an area of my preference.

[M] As a User, I want to perform a Search based on my selected sport activities, so that I can find facilities that I may want to go to.



Show locations

[M] = mandatory

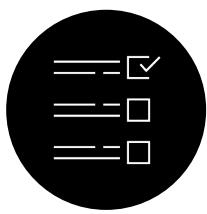
[O] = optional



[M] As a User, I want to see results of my Search in a table-like format, so that I can scan through the locations easily.

[M] As a User, I want to see the name, address, distance in the result table, so that I can get an idea where and how far it is.

[O] As a User, I want to see results of my Search on the map, so that I can get a better understanding of where those locations are.



Choose a place and show its details

[M] = mandatory
[O] = optional



[M] As a User, I want to click the row in table and see place details, so that I can learn more about the given facility.

[O] As a User, I want to click Point-Of-Interest on the map and see place details, so that I can learn more about it.

[M] As a User, I want to see details of the place: name, address and sports, so that I have all the relevant information I need to go there.

[O] As a User, I want to see the place location at map, so that I can get an idea where it is.



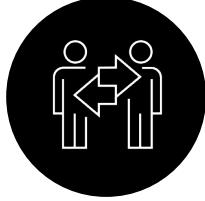
Route planning to a chosen place

[M] = mandatory

[O] = optional



[O] As a User, I want to click "Navigate" button and see the Google Map navigation to the selected place, so that I understand how exactly to get there and how long it is going to take, depending on what transport mode I am going to go for.



Recommend and share the chosen place to friends

[M] = mandatory
[O] = optional

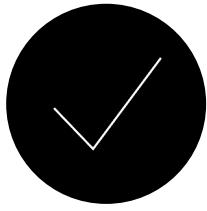


[O] As a User, I want to click "Share" button at the place detail page and see a next page with list of my friends (hard-coded list of friends is OK), so that I can invite them to join me.

[O] As a User, I want to select one or more people from the list of my friends, so that I can share my selection with them.

[O] As a User, I want to fill in a short message, so that I can tell them why I am sharing the place, tell them when to meet there and/or motivate them to join me there.

[O] As a User, I want to click "Send" button and send the selected friends a message with a link to the selected place, so that we all can meet at the facility and enjoy our preferred sports activity together.



Scale your application to hundreds of millions of users across the globe

[M] = mandatory
[O] = optional



[M] As a Investor/Sponsor, I want presentation about scaling of your application for millions of users

[M] I want to know about possible technical solution and challenges in worldwide rollout of your application

[M] I want to know about technologies you are going to use and what possible risks you may face

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