

# Fullstack Challenge

## **Problem**

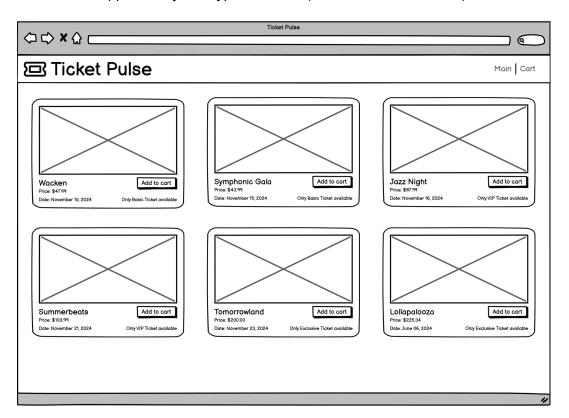
Welcome to the Ticket Pulse shop challenge. In our online shop, people can buy tickets for selected concerts that create unforgettable live experiences.

Your task is to build a simple online shop for concert tickets. The shop should be easy to navigate and provide a great user experience. Below are the key requirements for the challenge.

## Requirements

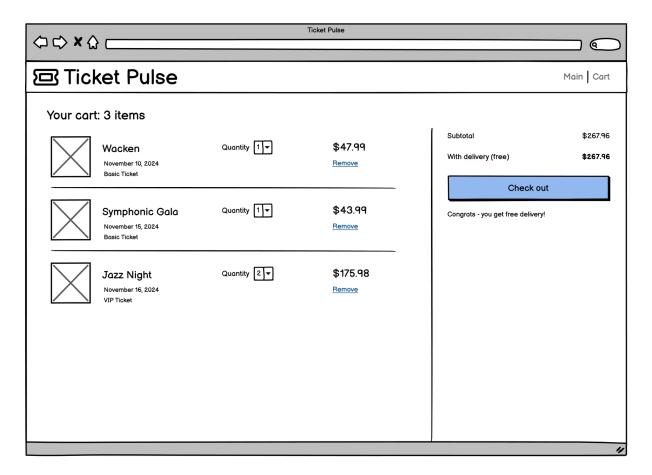
#### Main Page:

- Display an overview of available concert tickets in a card layout (name, date, image, price)
- Each card can be put into the shopping cart by clicking the "Add to cart" button, page should not redirect to the cart page
- Each event supports only one type of tickets (Basic, VIP or Exclusive)



### **Shopping Cart Page:**

- Display the tickets added to the cart along with their details (name, date, price, quantity)
- Event tickets can be removed from the cart by clicking on the "Remove" button. This will remove all tickets for a specific event (e.g. Wacken)
- The Quantity is placed in a dropdown and can be changed. Cart total should be recalculated immediately, as well as event price.
- Display the total amount to pay based on the number & price of the tickets in the cart



# Pricing

All of our tickets have a price that is dynamically calculated in relation to the concert date. The following rules apply:

- Basic ticket
  - Base price starts at \$39.99
  - The price increases by:
    - +5% of the base price when there are 15 days or fewer but more than
      10 days left
    - +10% of the base price when there are 10 days or fewer but more than 5 days left

- +20% of the base price when there are 5 days or fewer left
- Once the concert date has passed, the card can no longer be sold, and its price drops to 0

#### - VIP ticket

- Base price starts at \$79.99
- VIP tickets increase in price faster than basic tickets:
  - +10% of the base price when there are 15 days or fewer but more than 10 days left
  - +20% of the base price when there are 10 days or fewer but more than 5 days left.
  - +30% of the base price when there are 5 days or fewer left
- Once the concert date has passed, the card can no longer be sold, and its price drops to 0

#### - Exclusive ticket

- Base price starts at \$200.00
- Its price does not change until the concert date
- After the event, the card becomes a collector's item, and its price increases by 1.2% of the base price every day after the concert

#### General

- The pages should be linked together, allowing seamless navigation between them

#### **Tickets**

Make sure that at least the following tickets are available in the system (sample cart listed here):

Name	Concert	Quantity	Price
Basic Ticket - Country Thunder	In 17 days	1	\$39.99
Basic Ticket - Wacken	In 4 days	1	\$47.99
Basic Ticket - Symphonic Gala	In 9 days	1	\$43.99
VIP ticket - Jazz Night	In 14 days	2	\$175.98
VIP ticket - Summerbeats	In 1 day	4	\$415.96
Exclusive ticket - Tomorrowland	In 5 days	1	\$200
Exclusive ticket - Lollapalooza	10 days ago	2	\$450.68

Total Sum   \$1374.59		Total Sum	\$1374.59
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# What We're Looking For

- Make sure the requirements above are fulfilled and the system is working
- We expect that the solution is covered with tests
- Code should be clean & maintainable
- Reasonable database choice & database design

### **Technical Details**

- PHP & Yii2 are already setup in the Github repository
- It's expected that React or Vue.js is used as a component library
- It's ok to use some UI component libraries (e.g. ChakraUI, MaterialUI etc.)
- Use a suitable database technology to store ticket information

## Nice to have

- Frontend components are written in TypeScript
- Detailed Pull-Request description
- Add a section to the Pull-Request description with things that could be improved & next steps that you would apply to bring it to production
- Application can be run easily full functional with docker-compose up command as a Docker container