# Burger Case Assignment

Tamás Péter

### My Goals

- Include process and problem solving
- Focus on parts relevant to position
  - System architecture
  - Component based development
  - o Data fetching concepts

### Agenda

- Interpreting the problem
- Designing UI
- System diagram / architecture
- Technology choices
- Frontend planning (layout, components etc.)
- Code, implementation details
- Testing
- Improvements, project future

### First Things First

You are working on a new social platform for burger fanatics where users can review local burger places, scoring them based on taste, texture, and visual presentation. Users can also upload pictures of their burgers to entice fellow burger enthusiasts.

On the platform, users can find nearby restaurants with burgers on the menu and read information about location and opening times. The new Burger Frontend 1.0™ (trademark pending) is designed to be accessible on multiple platforms, both mobile and web.

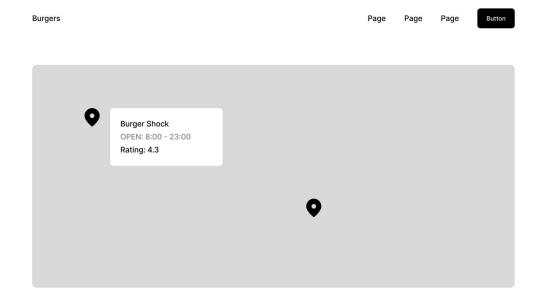
Outline the overall architecture, including hosting in a cloud setup, and implement the web part of the social platform. Tie it all together in a presentation that will be the base of discussion for the interview.

The application must integrate with the Burger Backend 1.0™, which is implemented through a set of microservices. The development of the Burger Backend 1.0™ is beyond the scope of this case; however, reflections on its potential structure are appreciated.

### Prioritizing requirements

- 1. As a user I want to choose a restaurant from the **map\*** so I can navigate to their page
- 2. As a user I want to see information about the restaurant so I can read about the menu, rating and reviews
- 3. As a user I want to review the restaurant, so others can see my opinion
- 4. As a user I want to upload pictures of my burgers to the **restaurants page**, to entice fellow burger enthusiasts

### Visualizing Data



#### **Burger Places**



Burger Shock Body text for first product Rating: 4.3



Mr. Daniel
Body text for second product
Rating: 3.5



Burger Ideas
Body text for third product
Rating: 4.9

```
Restaurants:
[
    "burger-shock",
    "mr-daniels",
    "burger-ideas"
```

### Visualizing Data

Burgers







#### **Burger Shock**

Subheading

Overall Score: 4.6

Grilled Burgers with crispy onions. Come and taste the freshness of ...

Give Score

Text box for additional details or fine print

Taste: 4.3 Texture: 4.2 Visual Presentation: 4.8

Texture: 4.2

Visual Presentation: 4.8

#### Menu Items



Product Body text for first product



Product
Body text for second product



Product
Body text for third product
\$10.99

#### Ratings

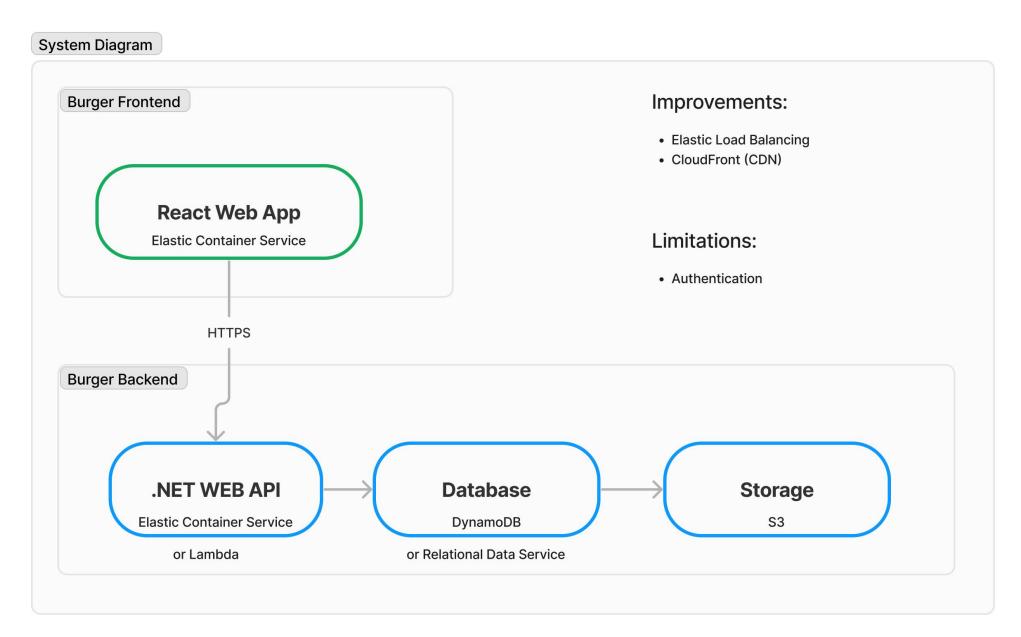
Product
Body text for first product
\$10.99

Product
Body text for second product
\$10.99

Product
Body text for third product
\$10.99

```
"id": "burger-shock",
    "name": "Burger Shock",
    "image": "/images/burger-shock.jpg",
    "rating": 4.4,
    "menuItems": [
           "id": "cheese-burger",
            "name": "Cheeseburger",
            "price": 5.99,
            "description": "A classic cheeseburger
with lettuce, tomato, and pickles."
    "reviews": [
           "id": "review-1".
            "name": "John Doe",
            "rating": 5,
            "comment": "Great burgers!"
```

Data subset fetching or secondary index

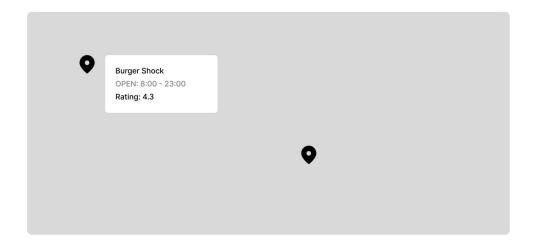


Images, Read-heavy vs Write-heavy

## Technology Choice

- React with TypeScript
- Next.js
  - Project (SEO, data fetching)
  - Position
  - Personal
- Cypress.io

Burgers Page Page Button



#### **Burger Places**



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Burgers Page Page Button



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Product
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Product
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\$10.99



Product
Body text for third product
\$10.99

#### Ratings

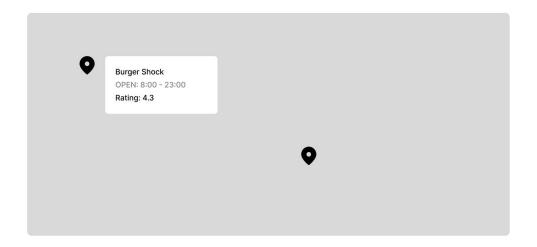
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\$10.99

Product
Body text for second product
\$10.99

Product

Body text for third product
\$10.99

Burgers Page Page Button



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Burgers



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Visual Presentation: 4.8

#### Menu Items







Body text for second product



Product
Body text for third product
\$10.99

#### Ratings

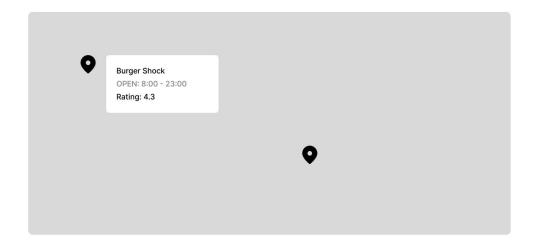
Product
Body text for first product
\$10.99

Product Body text for second product 10.99 Product
Body text for third product
\$10.99

(reusability, children components, flexibility

```
TitleDescriptionProps): JSX.Element => {
return (
    <div style={{...containerStyles, ...style}} {...props} >
       <h2 style={{...titleStyles, ...titleStyle}}>
          {title}
       </h2>
       {description &&
           {description}
          }
       {children &&
           <div style={{...childrenStyles, ...childrenStyle}}>
              {children}
          </div>}
    </div>
```

Burgers Page Page Button



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Mr. Daniel
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Body text for third product
\$10.99

#### Ratings

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Body text for second product
\$10.99

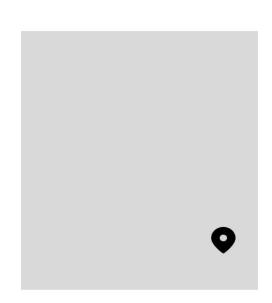
Product
Body text for third product
\$10.99

(Naming, reusability vs separation of concerns, globally available components)

```
ProductCardProps): JSX.Element => {
 const [loading, setLoading] = React.useState<boolean>(true);
 return (
    <Card>
        {imageSrc ? (
            <div style={imageWrapperStyles}>
               <Image src={imageSrc} alt="Burger" fill style={imageStyles} />
            </div>
            <div style={imageWrapperStyles}>
               loading
            </div>
        {title && description ? (
            <TitleDescription title={title} description={description} style={titleDescriptionStyles} >
               {price && {price}.-}
            </TitleDescription>) : (
               Loading...
    </Card>
                                                     Improvement: Export inner part as a Layout component
```

### Responsiveness

- Mobile First Design
- Next Image Component
- Loading skeletons



Mr. Da

Body te

### Burger Places

Burgers



Burger Shock Body text for first product Rating: 4.3



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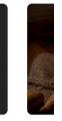
Texture: 4.2

Visual Presentation: 4.8

#### Menu Items



Burger Shock Body text for first product Rating: 4.3



Mr. Da Body te Rating:

## **Project Structure**

- Folder structure
- Component file structure
- Providers

### Component Tests

Nested Components



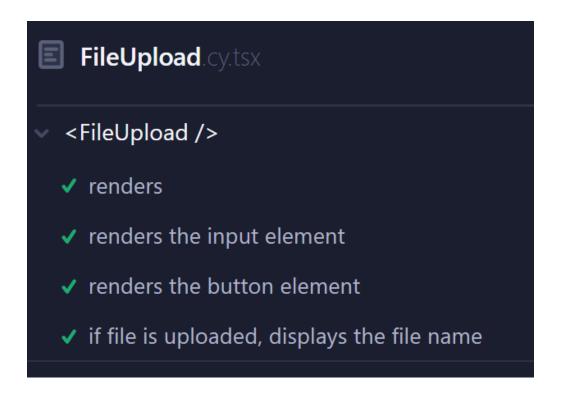
John Doe

Good one

Rating: 3.5

### Component Tests

Async tests





Future tests, challenges of testing (conditional tests)

### Improvements & Project Future

- User authentication
- Security concerns
- Data fetching optimalization
- Implementation of Cloud and CI/CD
- Finalize the UI design and stick with it
- More testing

### Discussion

Questions

- Potential topics:
  - Security
  - Version Control
  - o CI / CD
  - TypeScript
  - Microservice Architecture
  - Animations