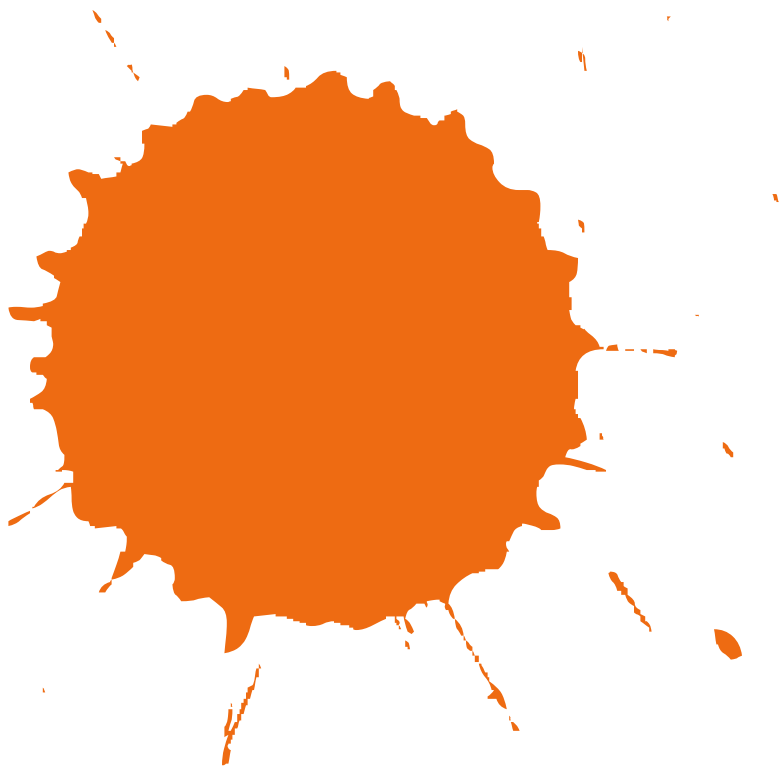# PRODUCT DEFINITION

- **Qeats Restaurant** is a restaurant management application with prime focus for managing restaurant inventory and online orders

- It can also be used in an offline setup to digitalize the restaurant menu and push dynamic changes in item description, price and availability

- It also helps a restaurant in analyzing trends of demand to aid in making changes to their inventory management system to serve more customers
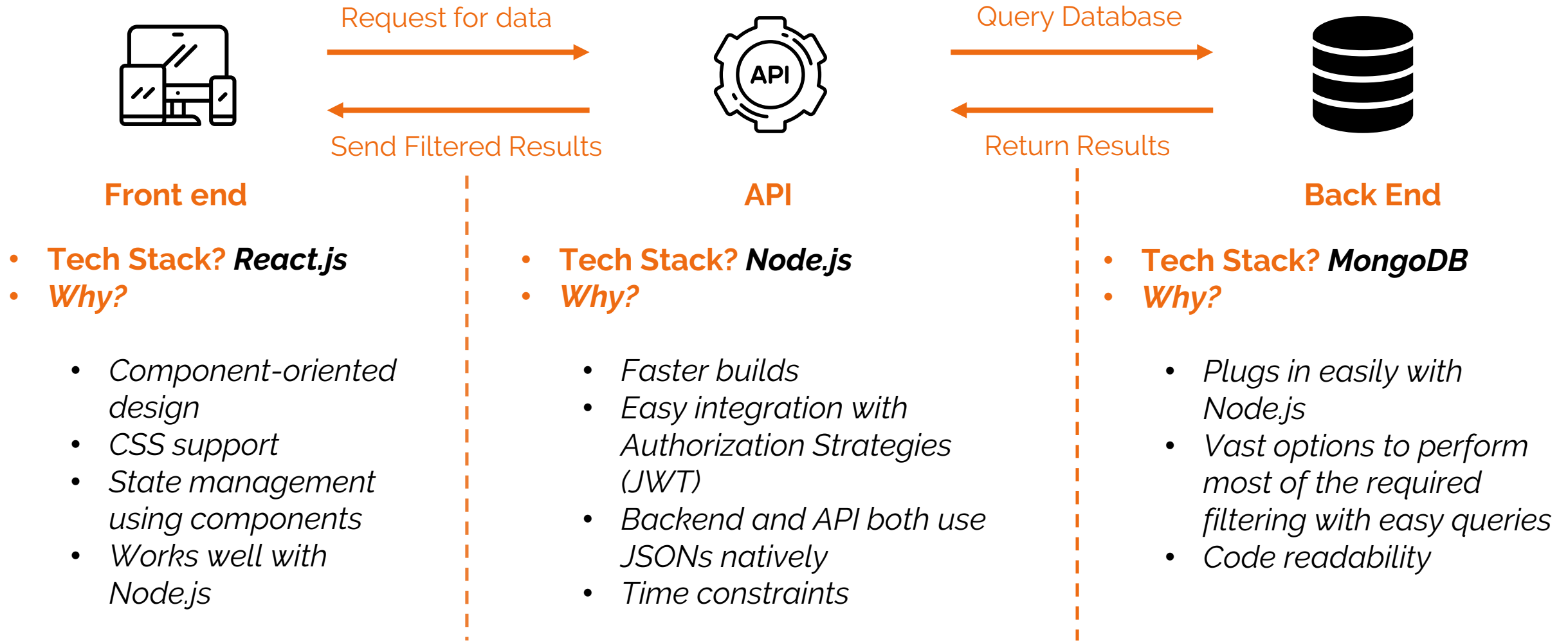
PRODUCT SCOPE

A restaurant on the Qeats Restaurant platform can do the following :

- Manage online orders by accepting / rejecting an order

- Set status on an active order to notify customer of order status

- Track menu items to estimate demand, manage inventory and strategize sales

- Temporarily mark items on menu as unavailable

- Add / Remove / Update items on the menu

- Keep track of orders served previously

DEMO.

ENGINEERING ARCHITECTURE

Request for data →

← Send Filtered Results

Query Database →

← Return Results

Front end

API

Back End

- **Tech Stack?** *React.js*
- *Why?*

  - *Component-oriented design*
  - *CSS support*
  - *State management using components*
  - *Works well with Node.js*

- **Tech Stack?** *Node.js*
- *Why?*

  - *Faster builds*
  - *Easy integration with Authorization Strategies (JWT)*
  - *Backend and API both use JSONs natively*
  - *Time constraints*

- **Tech Stack?** *MongoDB*
- *Why?*

  - *Plugs in easily with Node.js*
  - *Vast options to perform most of the required filtering with easy queries*
  - *Code readability*

METRICS FOR SUCCESS

- Increase in ratio of orders fulfilled to orders received

- Increase in productivity among restaurant staff due to elimination of certain order-related queries

- Decrease in food wastage due to improper inventory management

- Decrease in turn around time for order placement online

FUTURE SCOPE

- e-bill generation for offline orders

- Dynamic creation of combos based on food items ordered together frequently

- Support for promotions / coupon management

- Analytical component charting trends based on parameters to help management visualize scope of improvement