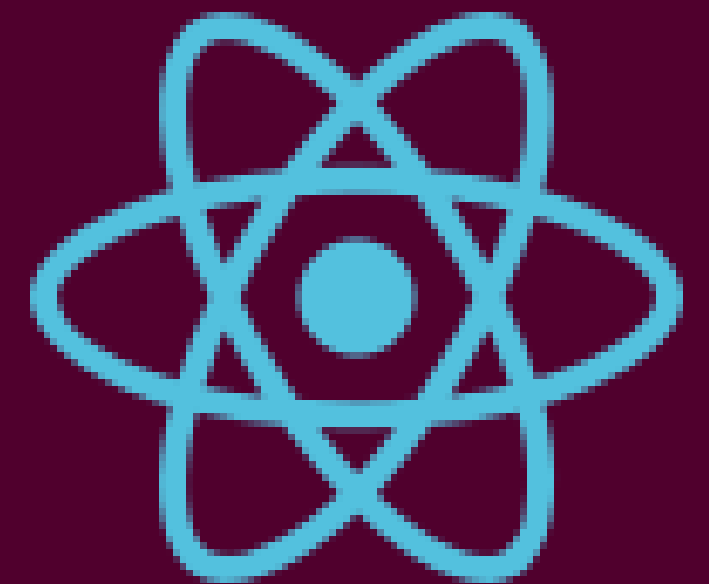


React.js modular project architecture





Feruza Makhmudova

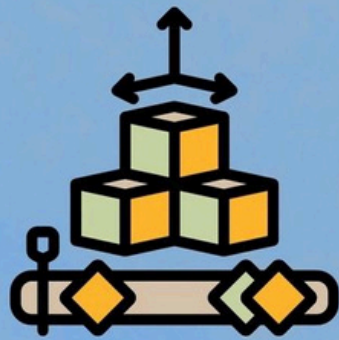
Software Engineer (4+ years prof. experience)

- Mcs in Computer science and software engineering
- **email:** feruza.maxmudova@ventionteams.com

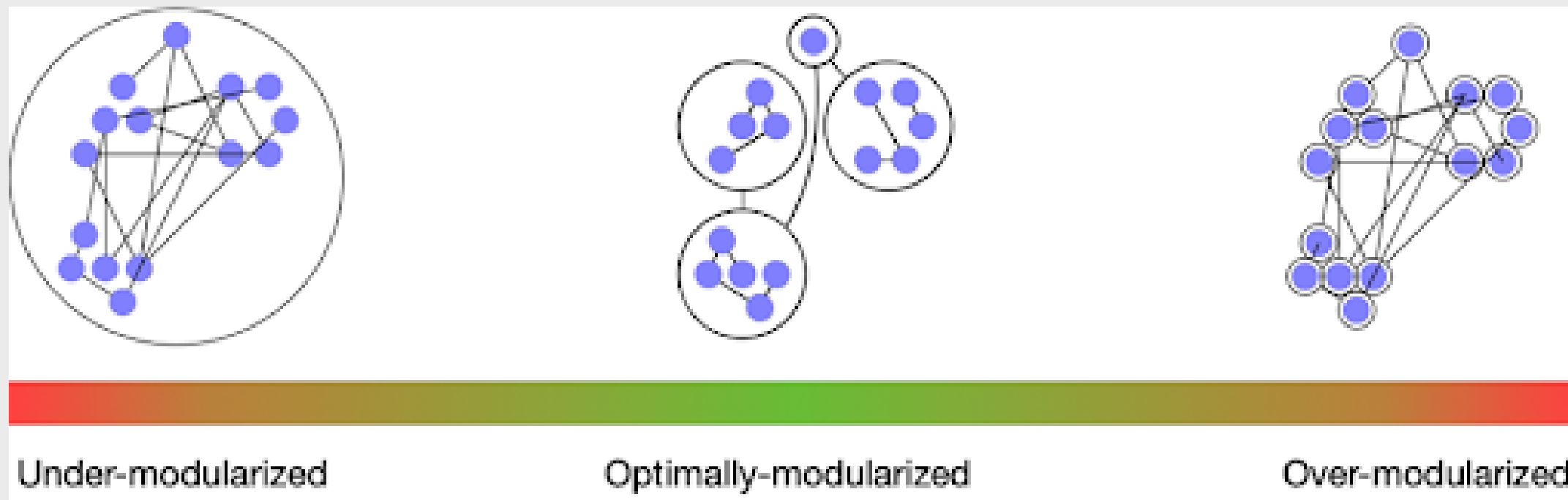
Agenda:

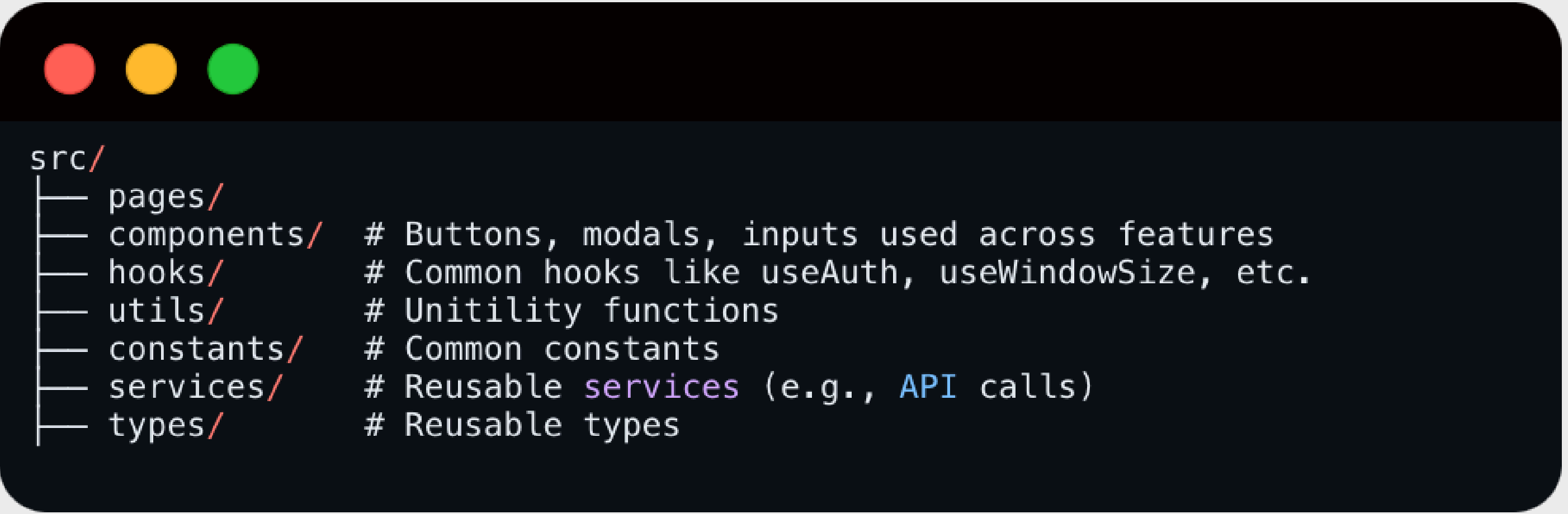
- What is modular architecture
- Why to use modular architecture
- Project structure
- Example Project



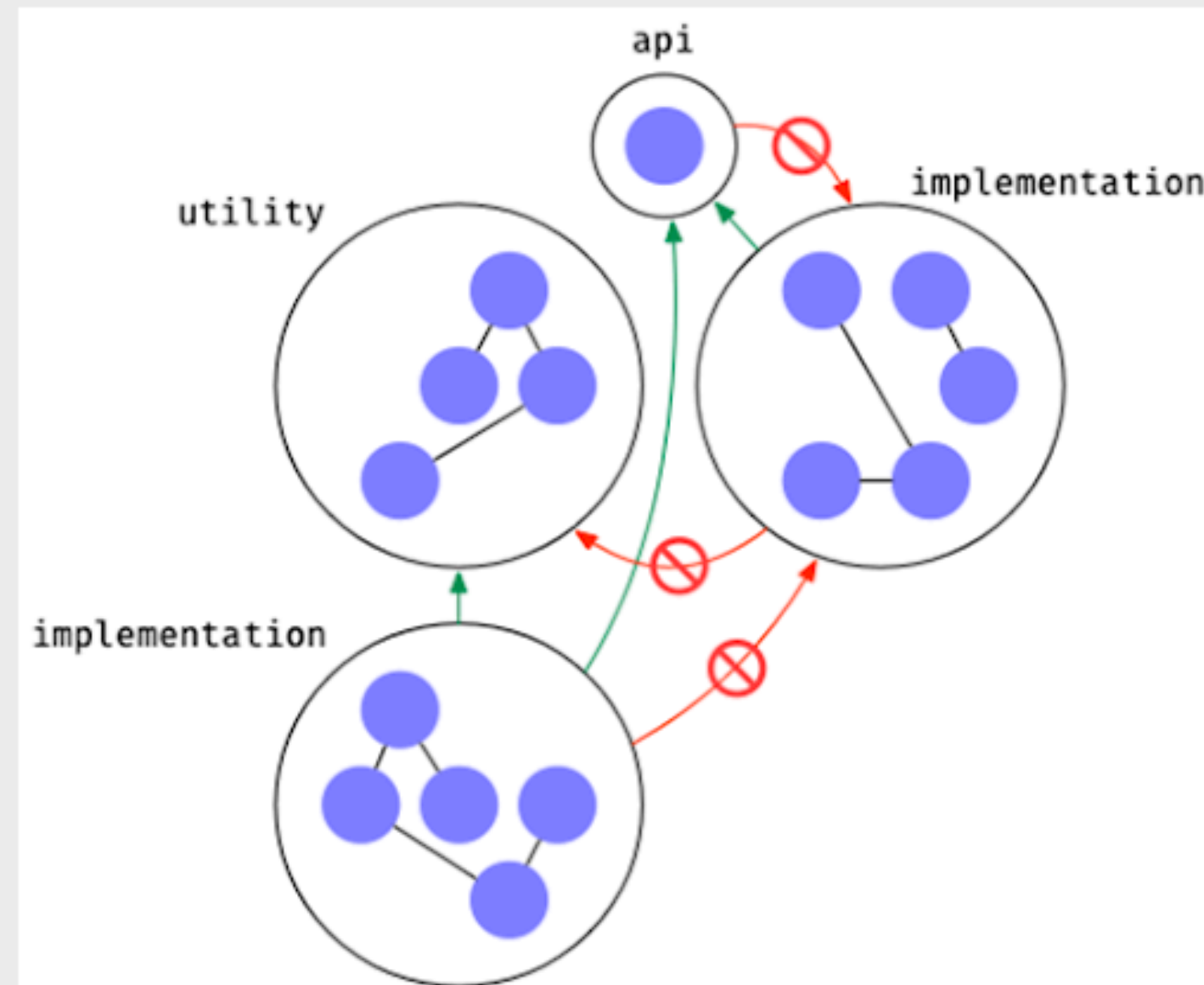


- Modular React project architecture - an approach where the codebase is structured into self-contained, reusable modules, each responsible for a specific feature or domain of the application.
- This design helps in scaling the project by promoting separation of concerns, maintainability, and reusability.





```
src/  
├── pages/  
├── components/ # Buttons, modals, inputs used across features  
├── hooks/      # Common hooks like useAuth, useWindowSize, etc.  
├── utils/      # Utility functions  
├── constants/  # Common constants  
├── services/   # Reusable services (e.g., API calls)  
└── types/     # Reusable types
```



```

src/
├── pages/
│   └── UserDetails/
│       ├── components/
│       │   ├── UserInfo/
│       │   │   ├── UserInfo.tsx          # Component implementation
│       │   │   ├── UserInfo.types.ts     # Types specific to UserInfo
│       │   │   ├── UserInfo.styles.ts    # Styles specific to UserInfo
│       │   │   ├── UserInfo.test.ts      # Unit test for UserInfo
│       │   │   └── index.ts              # Export UserInfo component
│       │   ├── UserAvatar/
│       │   │   ├── UserAvatar.tsx        # Component implementation
│       │   │   ├── UserAvatar.types.ts   # Types specific to UserAvatar
│       │   │   ├── UserAvatar.styles.ts  # Styles specific to UserAvatar
│       │   │   ├── UserAvatar.test.ts    # Unit test for UserAvatar
│       │   │   └── index.ts              # Export UserAvatar component
│       │   └── index.ts                  # Export both UserInfo and UserAvatar
│       ├── UserDetails.tsx              # Main component (React page)
│       ├── UserDetails.container.ts      # Container logic (HOCs, hooks, etc.)
│       ├── UserDetails.types.ts          # Type definitions specific to the page
│       ├── UserDetails.styles.ts         # Styled components or CSS modules
│       ├── UserDetails.utils.ts          # Utility functions specific to the page
│       ├── UserDetails.constants.ts      # Constants related to the UserDetails page
│       ├── UserDetails.test.ts           # Unit tests for the UserDetails page
│       └── index.ts                      # Exporting module (optional)

```



```

src/
├── pages/
│   └── UserForm/
│       ├── components/
│       │   ├── FormField/
│       │   │   ├── FormField.tsx      # Component implementation
│       │   │   ├── FormField.types.ts  # Types specific to FormField
│       │   │   ├── FormField.styles.ts  # Styles specific to FormField
│       │   │   ├── FormField.test.ts   # Unit test for FormField
│       │   │   └── index.ts            # Export FormField component and types
│       │   ├── UserAvatar/
│       │   │   ├── UserAvatar.tsx      # Another component example
│       │   │   ├── UserAvatar.types.ts  # Types specific to UserAvatar
│       │   │   ├── UserAvatar.styles.ts # Styles specific to UserAvatar
│       │   │   └── index.ts            # Export UserAvatar component and types
│       │   └── index.ts                # Export all components from the components folder
│       ├── hooks/
│       │   ├── useUserForm.ts          # Custom hook for form logic
│       │   ├── useUserForm.test.ts     # Unit test for custom hook
│       │   └── index.ts                # Export hooks
│       ├── styles/
│       │   ├── formStyles.ts           # Styles for the entire form
│       │   ├── fieldStyles.ts          # Styles for form fields
│       │   ├── buttonStyles.ts         # Styles for buttons
│       │   └── index.ts                # Export all styles
│       ├── schema/
│       │   ├── validationSchema.ts     # Schema for form validation (e.g., Yup, Zod)
│       │   ├── formDataSchema.ts       # Schema for normalizing form data or submitting
│       │   └── index.ts                # Export schemas
│       ├── UserForm.tsx                # Main UserForm component
│       ├── UserForm.types.ts           # Type definitions for the form
│       ├── UserForm.constants.ts       # Constants for UserForm
│       ├── UserForm.utils.ts           # Utility functions specific to the form
│       ├── UserForm.test.ts           # Unit tests for UserForm component
│       └── index.ts                    # Export UserForm module and submodules

```



Any question?



Thank you very much!

