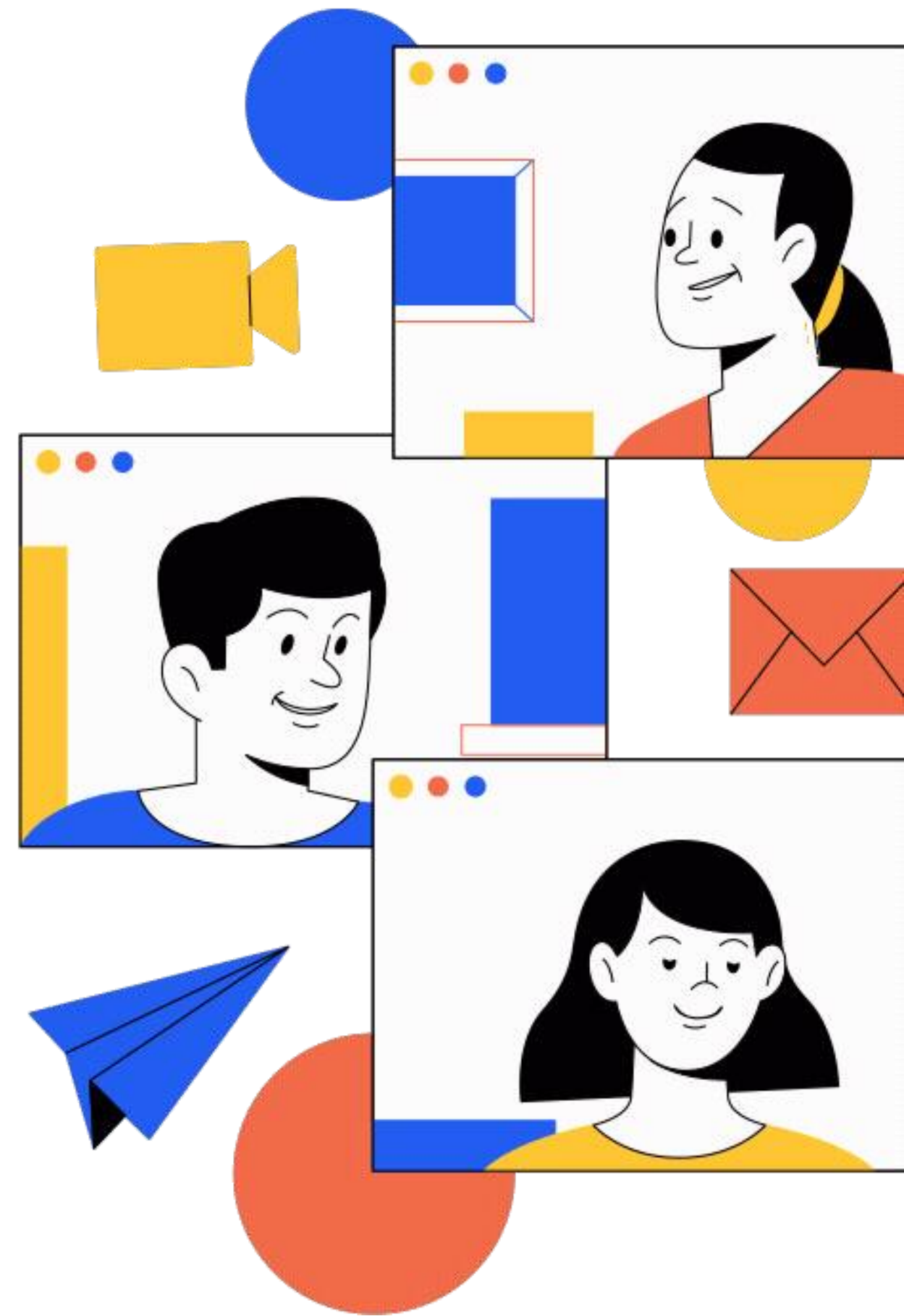


Week 5 - Continue Redux

UI plus Redux

Ahmed Fouad Lotfy

React Session Lead



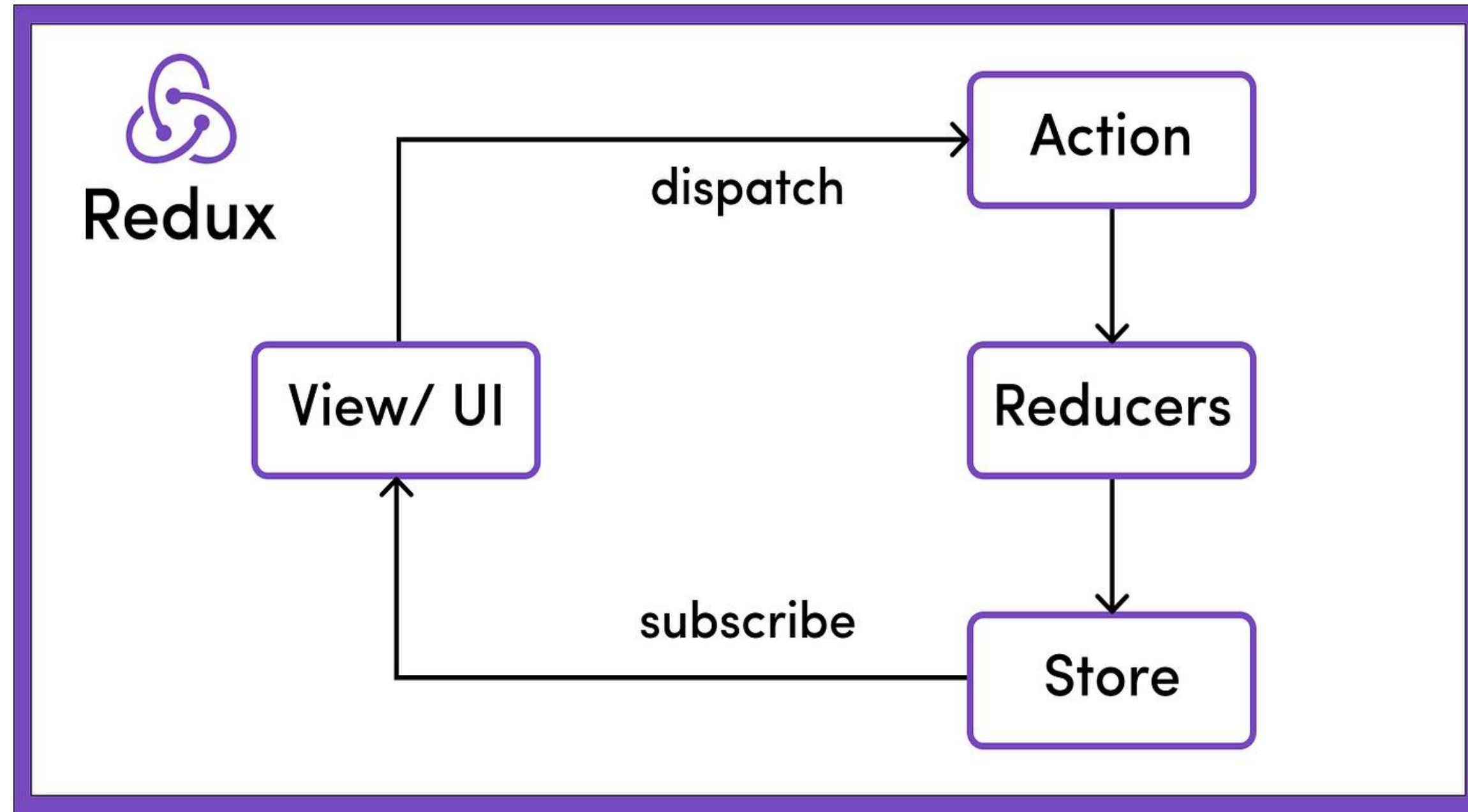
Agenda



What we'll cover in this session

- Continue with Redux
- UI and State
- More about Redux
- Redux Middleware
- Live Demo

Recap



Recap

Single Source of Truth

Predictable State Management

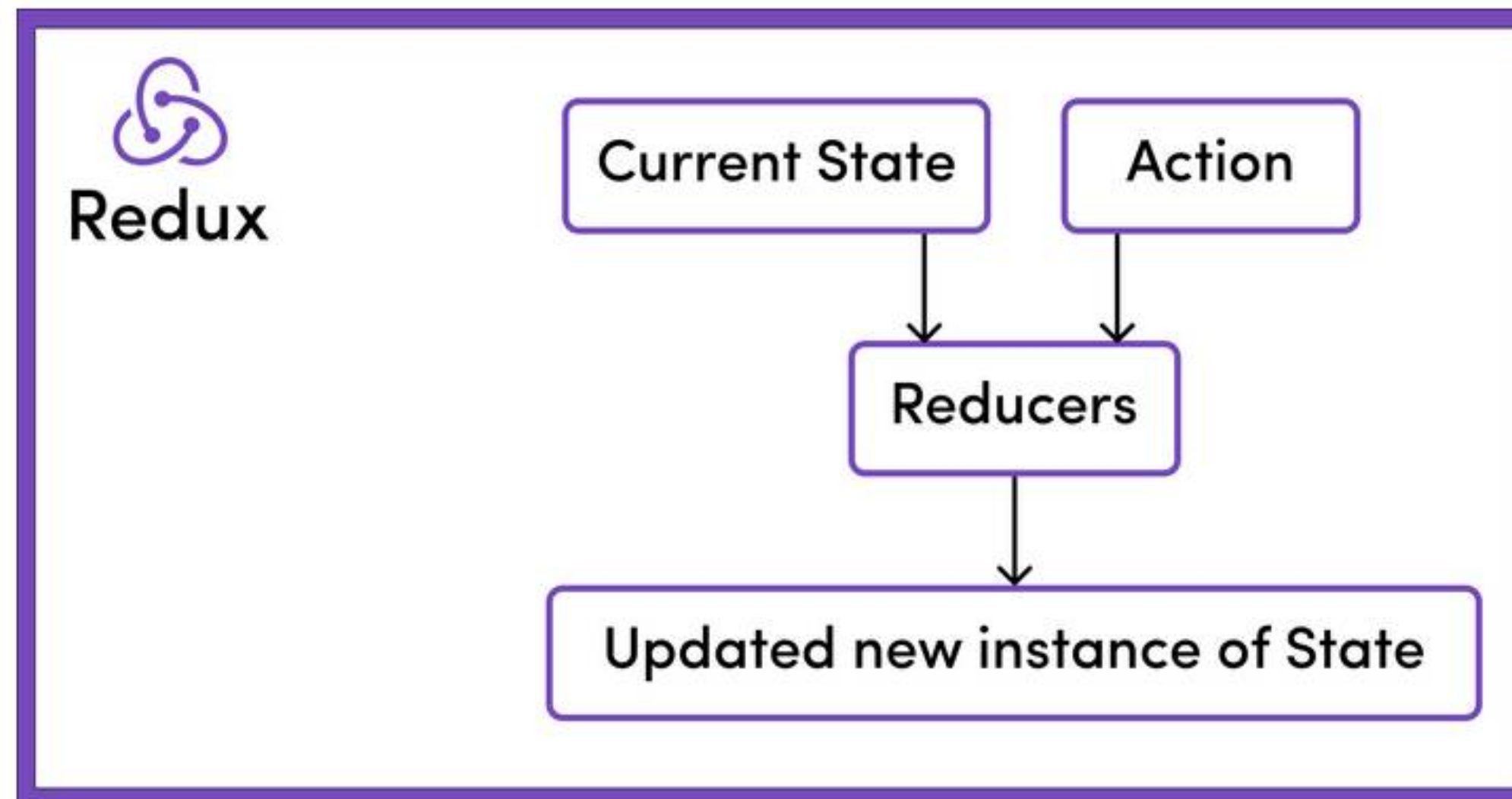
Easy Debugging with DevTools

Middleware for Extensibility

Continue with Redux

- We are not required to build the store every time we can simply install redux library and use it.
- What are the things that we still need to implement after installing redux?

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/redux/4.1.2/redux.min.js"></script>
```



UI and State

- First, we need to build our own UI using simple HTML code.
- We will first create index.html file
- We will import the previously mentioned script in the head part to import redux to our project.
- We will transfer all the code to the index.html file.
- We need to add more input fields to make the user interact and change the state of the application.
- We will use DOM manipulation to change the state of the application.

Todo List

More about Redux

- **Combine Reducers** The helper function turns an object whose values are different reducers functions into a single combined reducer function you can pass to Redux createStore method.
- Which makes it easier to handle complex scenarios with multiple reduce functions.

```
const store = Redux.createStore({  
  reducer: {  
    books: booksReducer,  
    user: userReducer  
  }  
});
```

```
const rootReducer = Redux.combineReducers(booksReducer, userReducer);  
  
const store = Redux.createStore(rootReducer);
```

Redux Middleware

- **Middleware in Redux** allows you to intercept actions and perform additional tasks as simple as validation and logging.

```
const middlewareEnhancer = Redux.applyMiddleware(print1, print2, print3);

const store = Redux.createStore(rootReducer, middlewareEnhancer);
```

```
const print1 = (store) => (next) => (action) => { Show usages
  console.group(action.type);
  console.log("The action: ", action);
  const result = next(action);
  console.log("The new state: ", store.getState());
  console.groupEnd();
  return result;
};
```


Its Demo Time

Grab your coffee and
let's get started. ☕

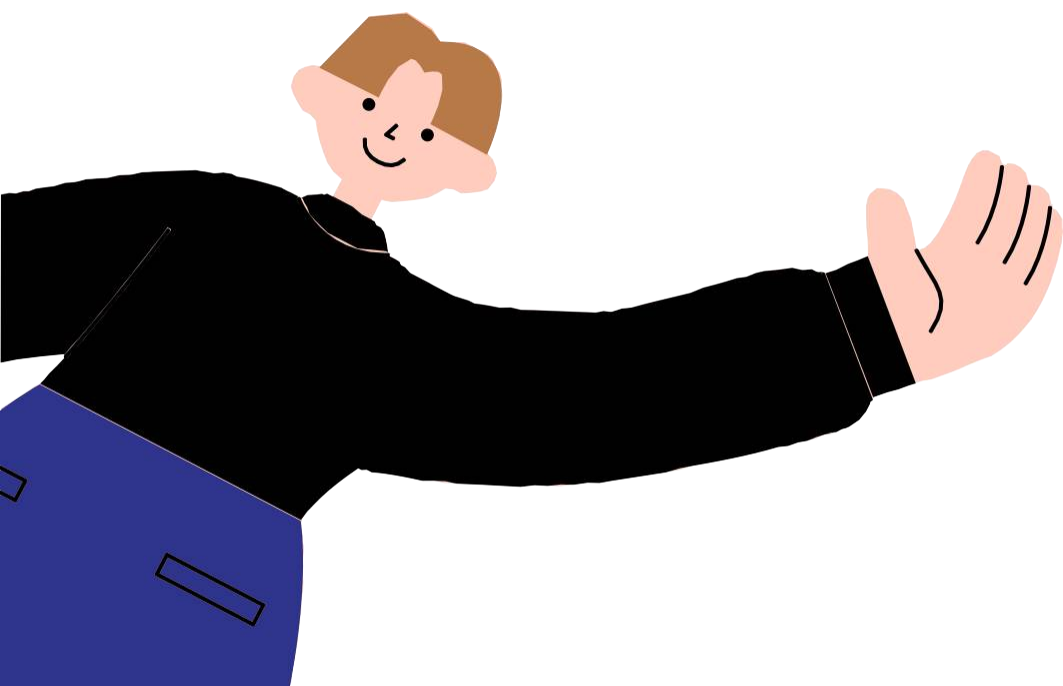


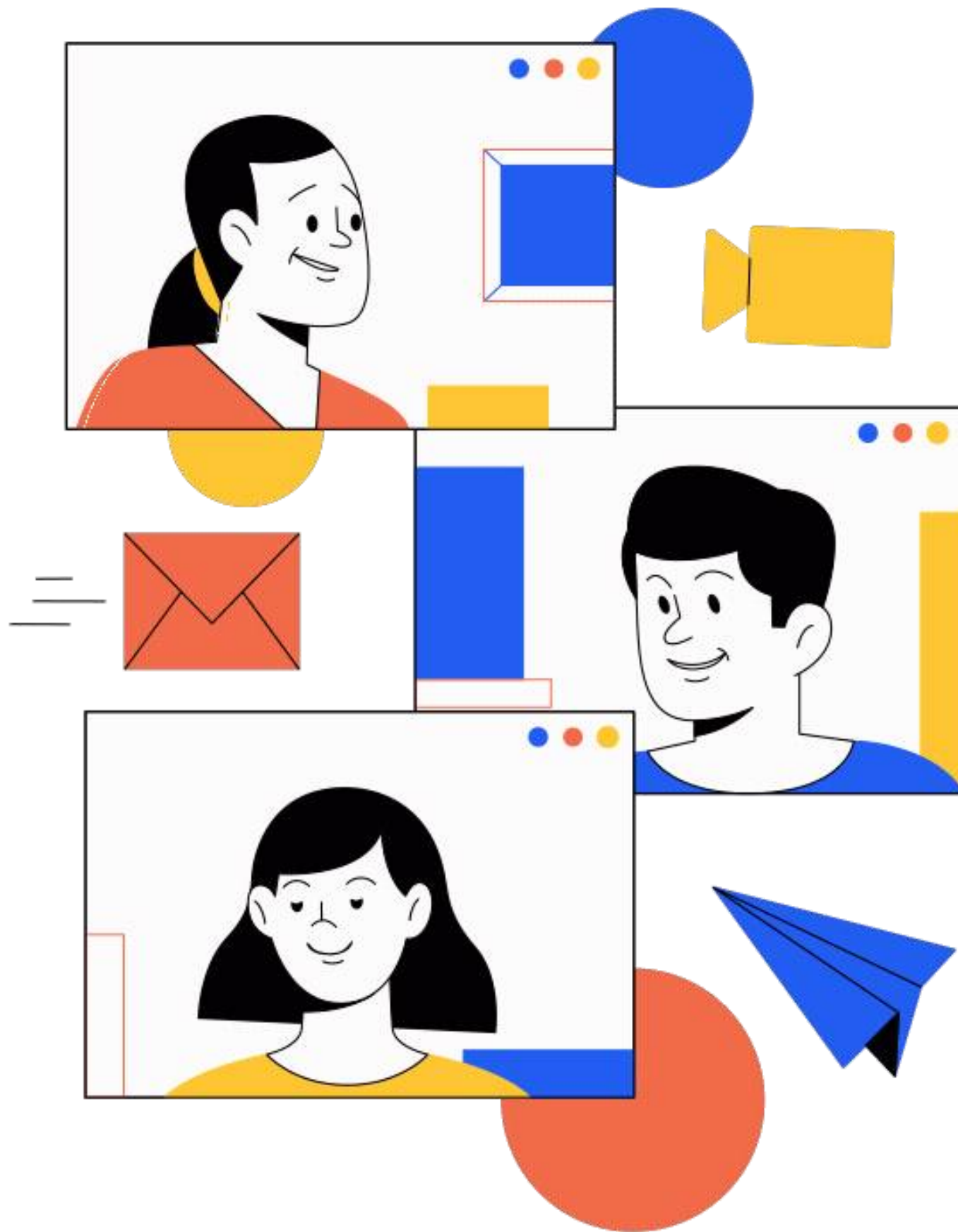
Next Session: Redux and React





Any Questions?





Thank you for attending!

Feel free to email at a.lotfy@fci-cu.edu.eg or reach me at circle anytime for any questions or clarifications!



Follow me on Github [@ahmeddx Fouad](https://github.com/ahmeddx Fouad)
code and slides are found at this [github_repo](#)