

# Redux Actions

Jogesh K. Muppala



THE DEPARTMENT OF  
**COMPUTER SCIENCE & ENGINEERING**  
計算機科學及工程學系



香港科技大學  
THE HONG KONG UNIVERSITY OF  
SCIENCE AND TECHNOLOGY

# Redux Actions

- Actions: payloads of information that send data from your application to the store
  - Done through `store.dispatch()`
- Plain JS object that must have
  - A type property that indicates the type of action to be performed
    - Best supported by defining action types as String constants
  - Rest of the object contains the data necessary for the action (payload)

# Action Creators

- Functions that create actions
  - Encapsulate the process of creating the action objects
  - Return the action object
  - Resulting action object can be passed to the store through `dispatch()`

# Actions and Reducers

- Reducers should be able to take the previous state and action and return next state:
  - Do not mutate state
    - Make a copy and modify the copy before returning it
  - Actions typically handled through a switch statement switching on the action type
  - Return the previous state in the default case

# Splitting and Combining Reducers

- Depending on the state shape, fields and updates to them could be decoupled:
  - Split the reducer into simpler reducer functions that operate on only some of the fields
    - Manages parts/slices of the global state
  - Combine the simpler functions to generate the overall state