**REDUX ASYNC LOGIC AND DATA FETCHING**

Most application need to work with data from a server hence a developer must make HTTP API calls to fetch and save this data. Because Redux only deals with dispatching actions with synchronous logic, hence any asynchronous logic would happen outside the store. In order to execute actions with asynchronous logic, redux middleware has to be introduced. Asynchronous logic can be deemed as logics with side effects and this includes logging a value to the console, making an AJAX HTTP request, etc. Redux Middleware has the ability to render any dispatched action including async calls because it forms a pipeline around the store.dispatch.

Besides dispatch, middleware has access to getState. Middleware can write async functions by either being very specific by looking for specific action types or by passing a function to dispatch. Async data flows by using an event handler to pass in an action or function via dispatch. Once the dispatched value reaches the middleware, an async call is made and a real action object is dispatched when the call completes. Redux Thunk Middleware is the official middleware redux uses to handle async calls. Async logic are written as thunk functions which makes this logic reusable. Redux Thunk has to be installed to be able to use redux thunk middleware in your project.