

MVC Architecture

What is MVC?

- MVC stands for Model-View-Controller
- It is software architecture pattern used to implement user interfaces

Model

Model represents knowledge. - Trygve Reenskaug

- manages data related to an application
- communicates directly with an application's database

View

A view is a (visual) representation of its model. - Trygve Reenskaug

- what the user sees and interacts with the application
- is the presentation of the application

Controller

A controller is the link between a user and the system. - Trygve Reenskaug

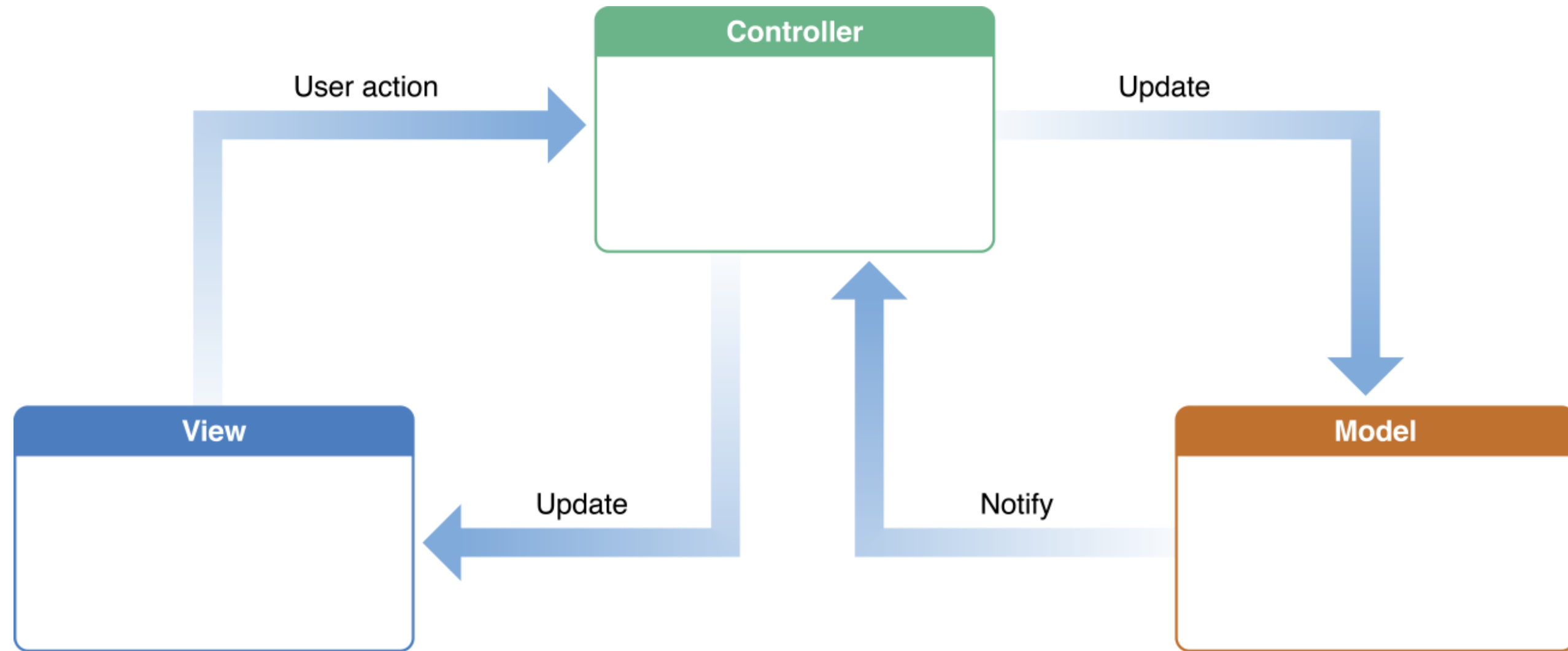
- the business logic that connects the View with the Model
- uses the Model to read and write to the database
- decides what to send to the View

Apple Store Analogy ¹

- **Model** is the backroom.
 - organizes Apple products
- **View** is the store showroom
 - displays Apple products for customers
- **Controller** is an Apple employee
 - responds to customers by taking or returning Apple products to the backroom

¹ **Quora:** What is the MVC (model-view-controller) architecture in layman's terms? [link](#)

MVC in Practice ²



² **Apple, Inc.** Apple Developer's MVC Article [link](#)

Benefits of MVC

- Organized Code
- Maintainable Code
- Reusable Code