



Universidade de Ribeirão Preto
Campus Ribeirão Preto - Campus Guarujá

Programação para Web II

MVC



Prof. Eliézer Zarpelão

Schedule

- MVC
- Concepts
- Benefits
- Demo



App without framework

- Difficult to re-use code
- Hard code everything from scratch
- Everything must be tested
- Teamwork

App without framework



Design Patterns

- D.P. is the way to organize a program in a proper manner
- MVC

M.V.C. ?

WHAT?!

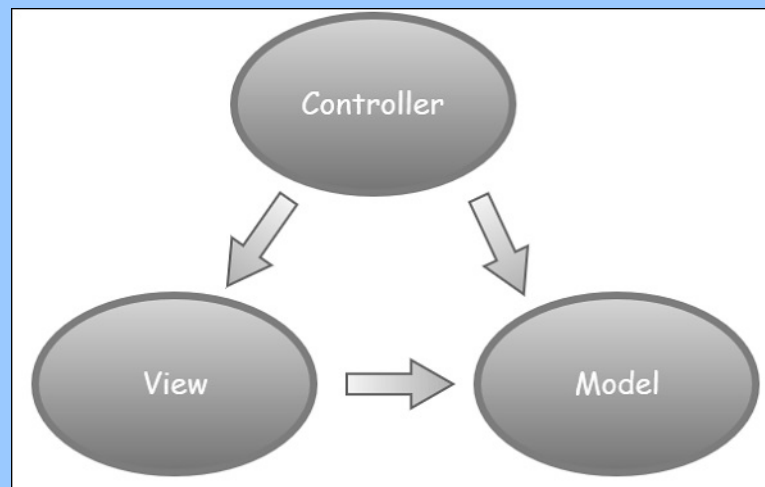


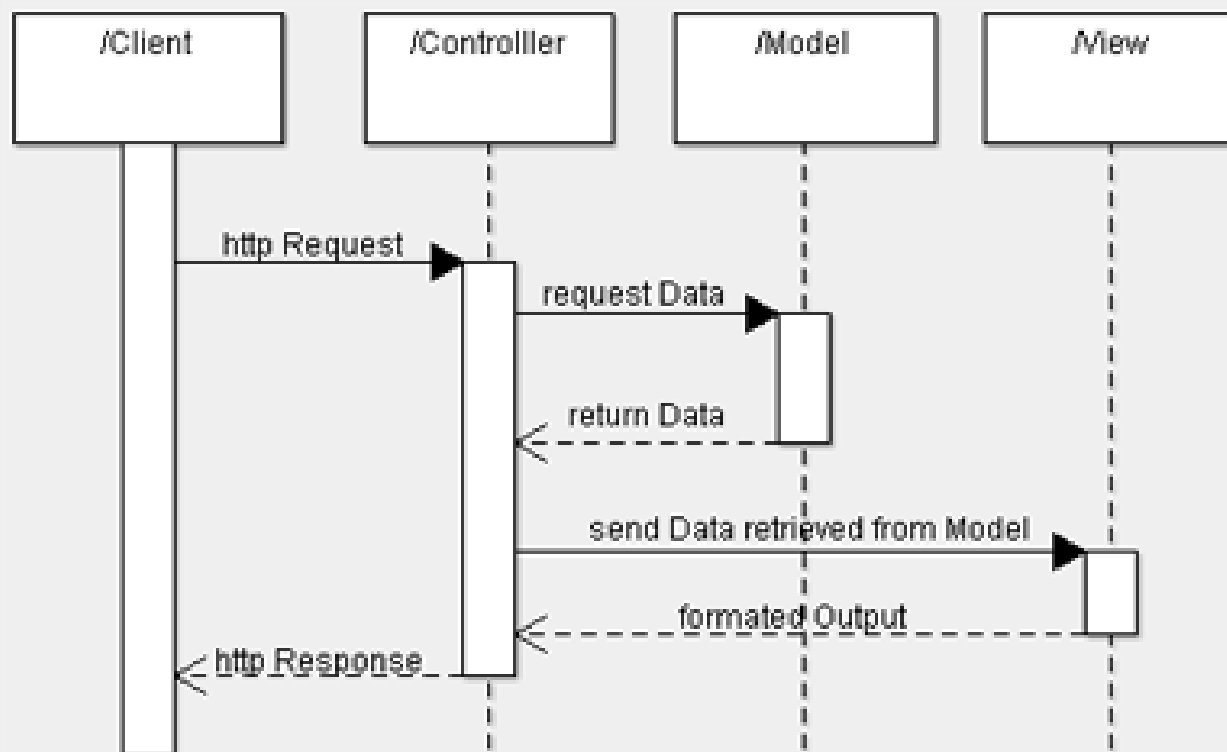
MVC

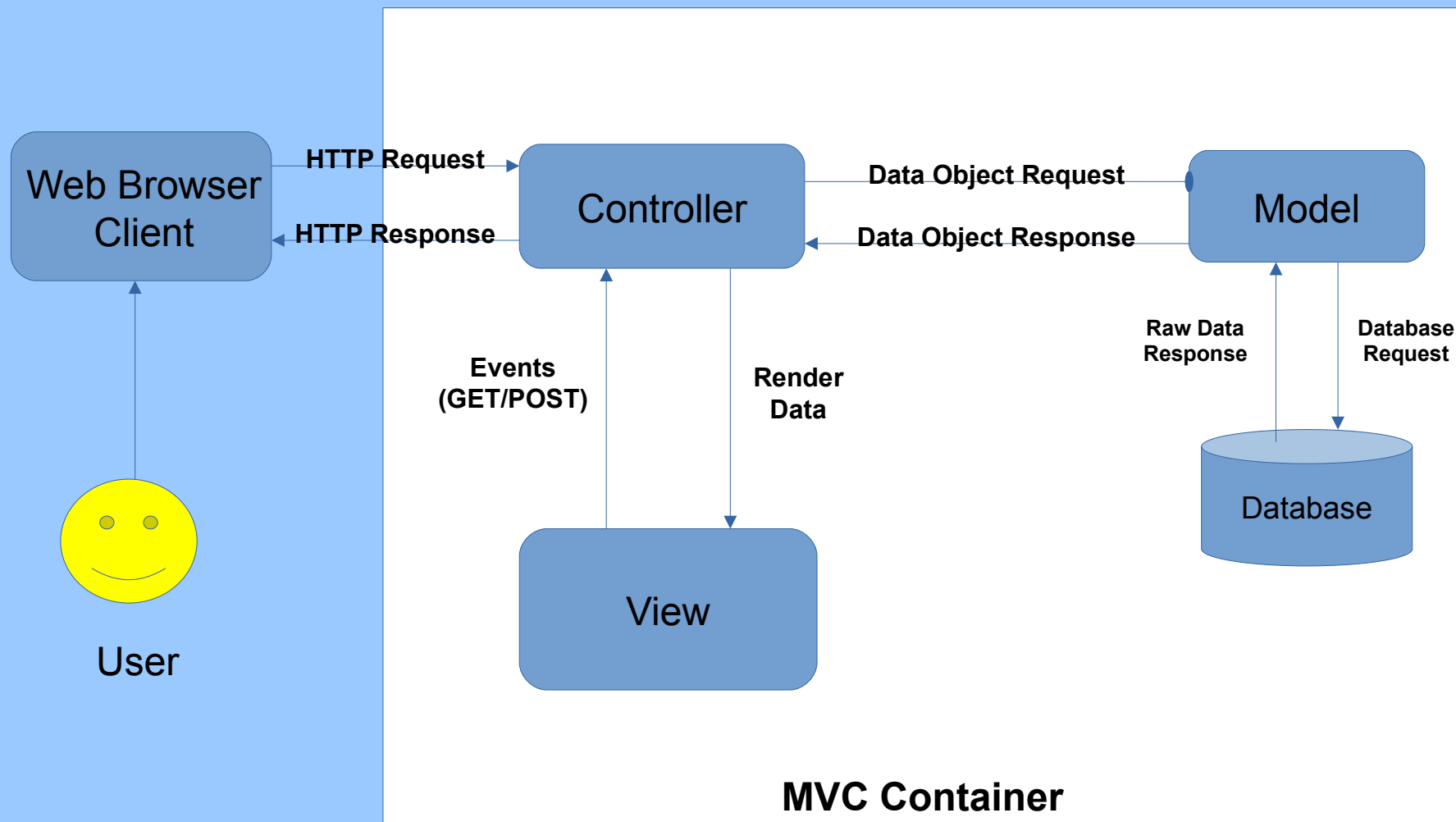
- Model – View – Controller
- A software design pattern
- Separate the logic from the display

MVC

- Smalltalk – Trygve Reenskaug – 1979
- Model – Data Layer
- View – User Interface Layer
- Controller – Interacts with the Model







Model – Data Layer

- Data access routines
- Provides the data from database
- Active representations of database tables
- No interaction between models and views
 - Logic is handled by controllers

View – User Interface Layer

- Defines exactly what is presented to the user
- Collects data from the user and gives it to the controller
 - Controller invokes the required model
- Template
- Views shouldn't contain complex business logic
 - Only elementary control structure to perform particular operations
 - Foreach to show itens from array

Controller - Interacts with the Model

- Binds the whole pattern together
- Intermediary Between View and Model
- Contains logic



MVC Benefits



- Separation of concerns
- Multiple View Support
- Parallel development by separate teams
- Highly Organized
- Maintainable
- Each module can be tested separately



Backspace

Delete

1

DEMO

Shift

Doubts

[Maior dúvida] – send by e-mail to
ezarpelao@unaerp.br subject
“Maior dúvida – 25/10/2019 - “+RA
Deadline: 28/10/2019

