

Building Modern Web Applications

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Overview

Concepts of Modern Web Application Design

Live Demo

- Creating a REST API
- Connecting the API to an Angular application

Additional Information

- CORS
- Securing your REST API

Q&A



Back in the old days...

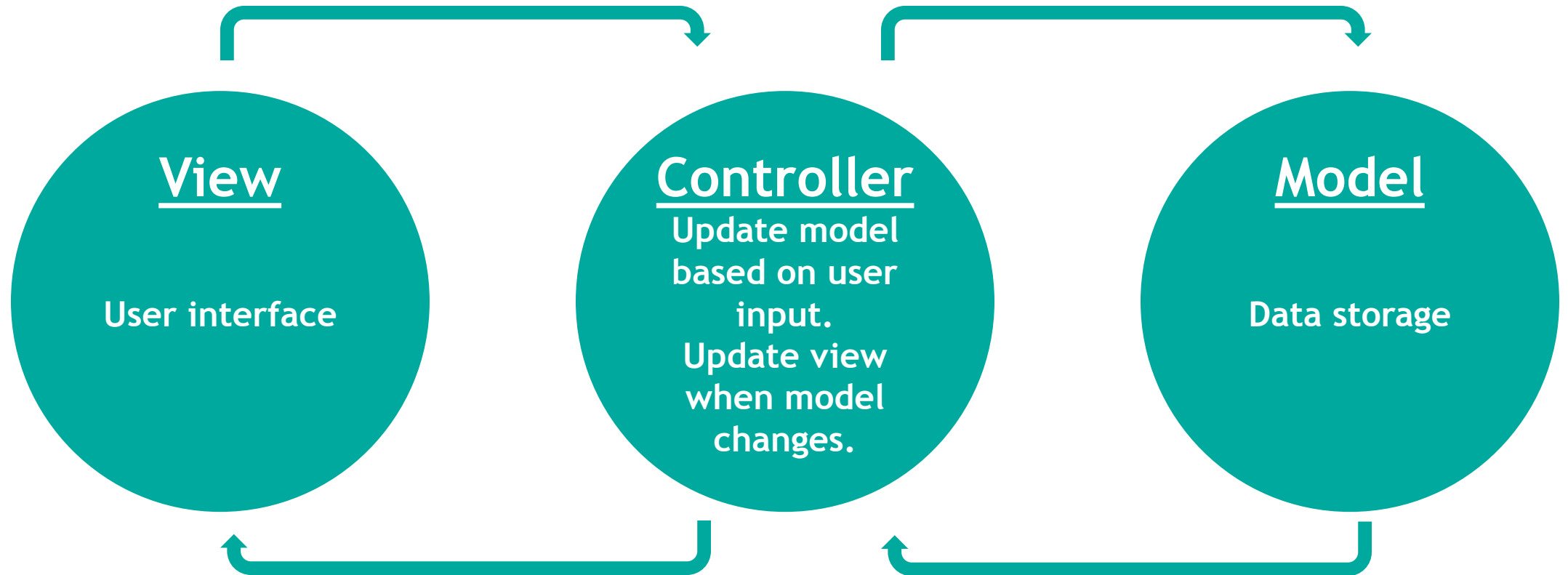
Server Pages



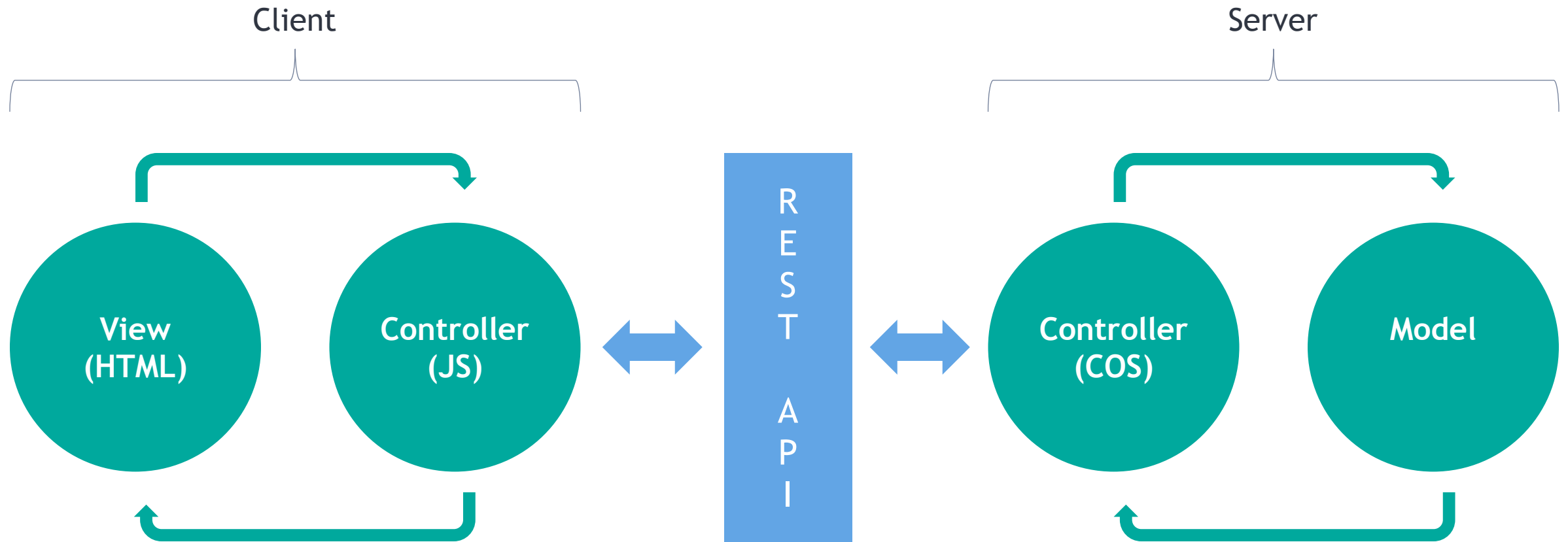
M. V. C.
Model View Controller



MVC



Application schematic



REST

GET `http://localhost:57772/gs/api/tasks`

Resource

Server and Port

HTTP Method	Action
POST	Create
GET	Read
PUT	Update
DELETE	Delete



JSON

```
{  
    "id": 1,  
    "name": "Michael",  
    "city": "Boston",  
    "company": "InterSystems"  
}
```



Dynamic Objects – Object to JSON

```
Set obj = {  
  
    "id":          1,  
  
    "name":        "Michael",  
  
    "city":        "Boston",  
  
    "company":     "InterSystems"  
  
}
```

```
Write obj.%ToJson()
```



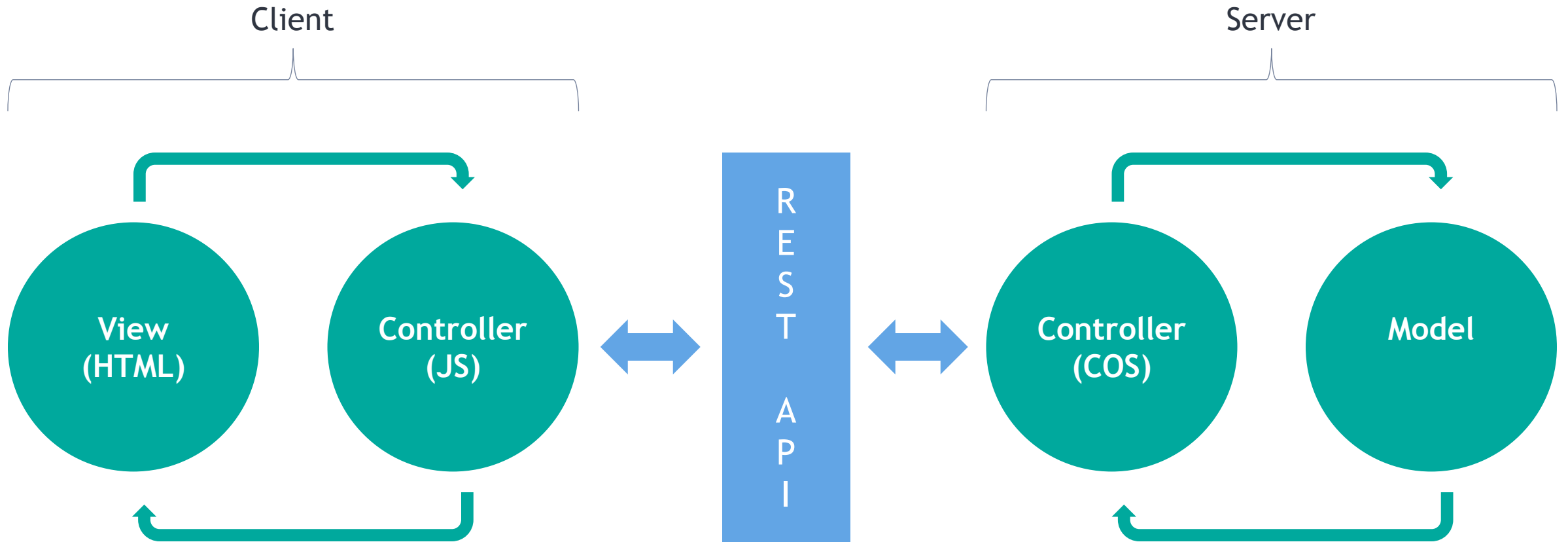
Dynamic Objects — JSON to Object

```
##class (%DynamicObject) .%FromJSON (jsonStream)
```





Separation of concerns – Client vs. Server



To-do List Application

Users must have the ability to:

- Review a list of their tasks
- Mark a task as completed
- Create new tasks
- Edit an existing task
 - Specify whether a task is more important than others
- Delete unnecessary tasks



Where to go from here...

While you are at the Solutions Developers Conference:

- Contact me, **Michael Smart**, or the Product Manager, **Stefan Wittmann**, in the Tech Exchange

Learn how to use the technology showcased in this session by visiting:

- <https://learning.intersystems.com/> (Online Learning)
- <https://learning.intersystems.com/course/view.php?id=622> (Setting Up REST Services)
- <https://community.intersystems.com/>

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Thank you.

