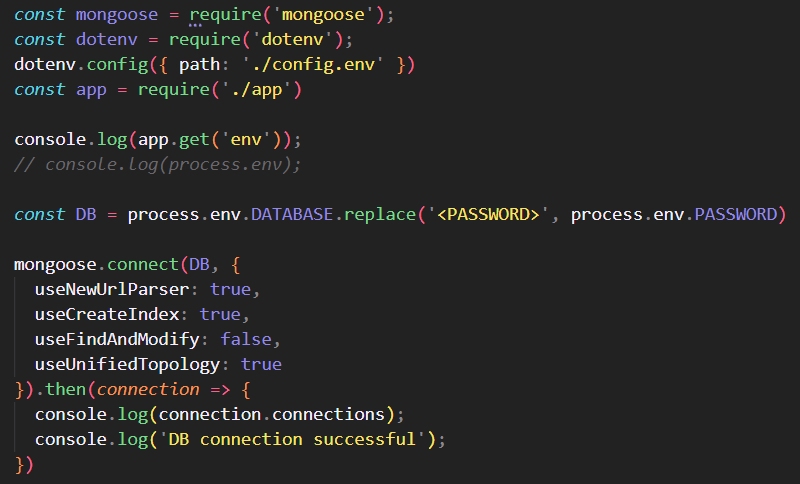
Connect to the DB

1.Connect to the Db with express app

Install mongoose 5

Import mongo

Specify some option to deal with deprecation warning



2. Introduction to mongoose

Mongoose is an object data modeling – write javascript code to interact with database library for mongodb and nodejs , a higher level of abstraction

Like relationship of express and node, express is higher level of abstraction though regular node

We can use regular mongodb to access to db, but for more convinient, we will use mongoose, it allow faster and simplier development of application

Feature of mongoose: schemas to model data and relationships, easy data validation, simple query API, middleware,..

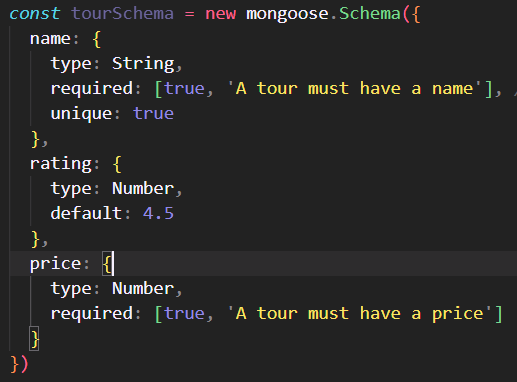
Use mongoose schema to model data, by describing the structure of the data, default value, validation

From schemas, we form model, like a wrapper for the schema, providing an interface to the the db for CRUD operations

3. Create simple tour model

create field and schema type option,

Schema type option with required and unique property

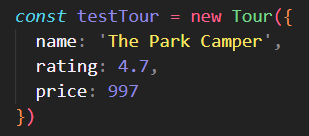


Create a model based on the schemas instance, this model call a object model(like a table in SQL)

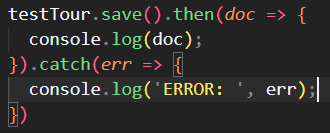


4. Creating document and testing model – adding item to the model

Create a object document, like a row in SQL



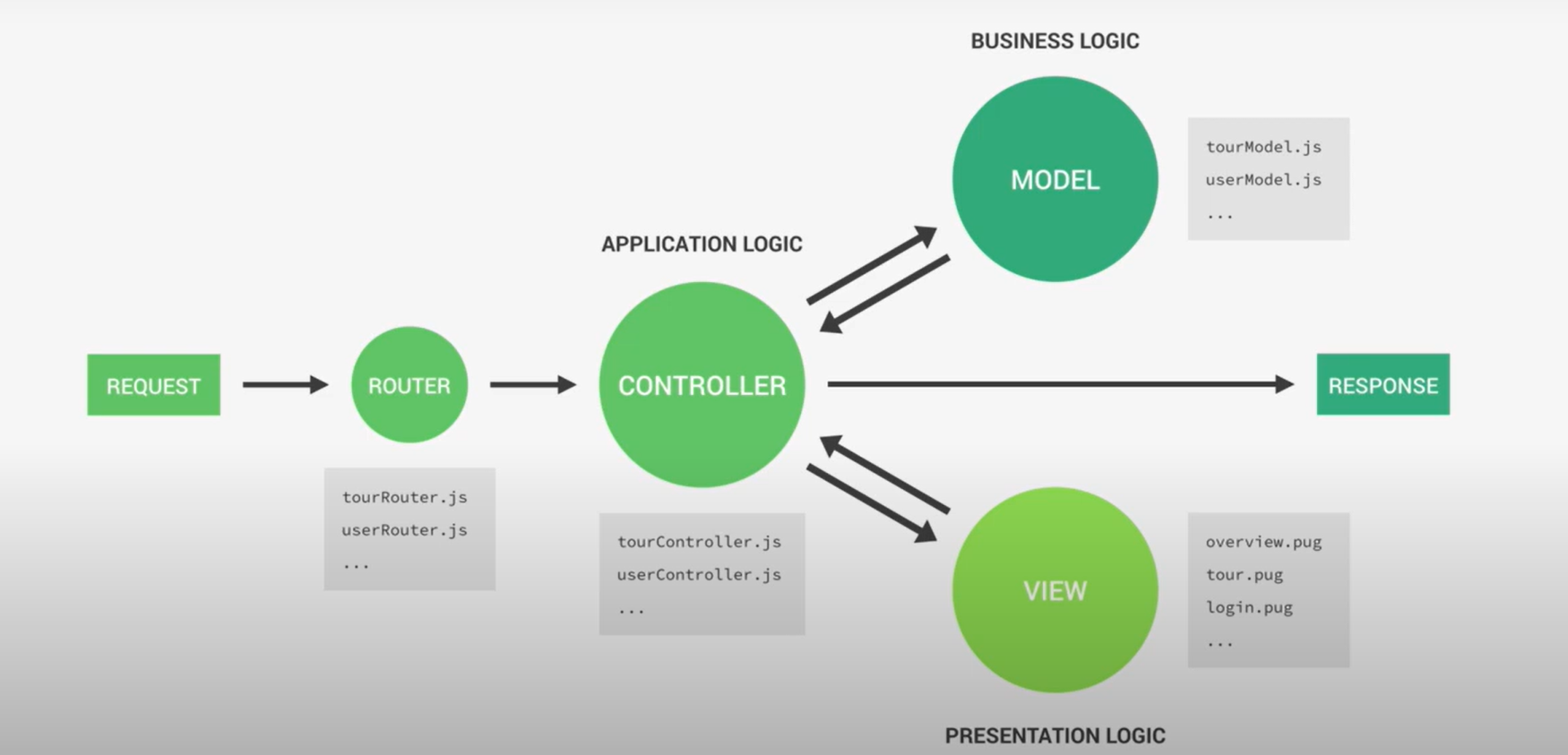
Save document to the model



That array is automatically throw an error if the property is not defined or not declared



5. Backend architecture: MVC, type of logic and more



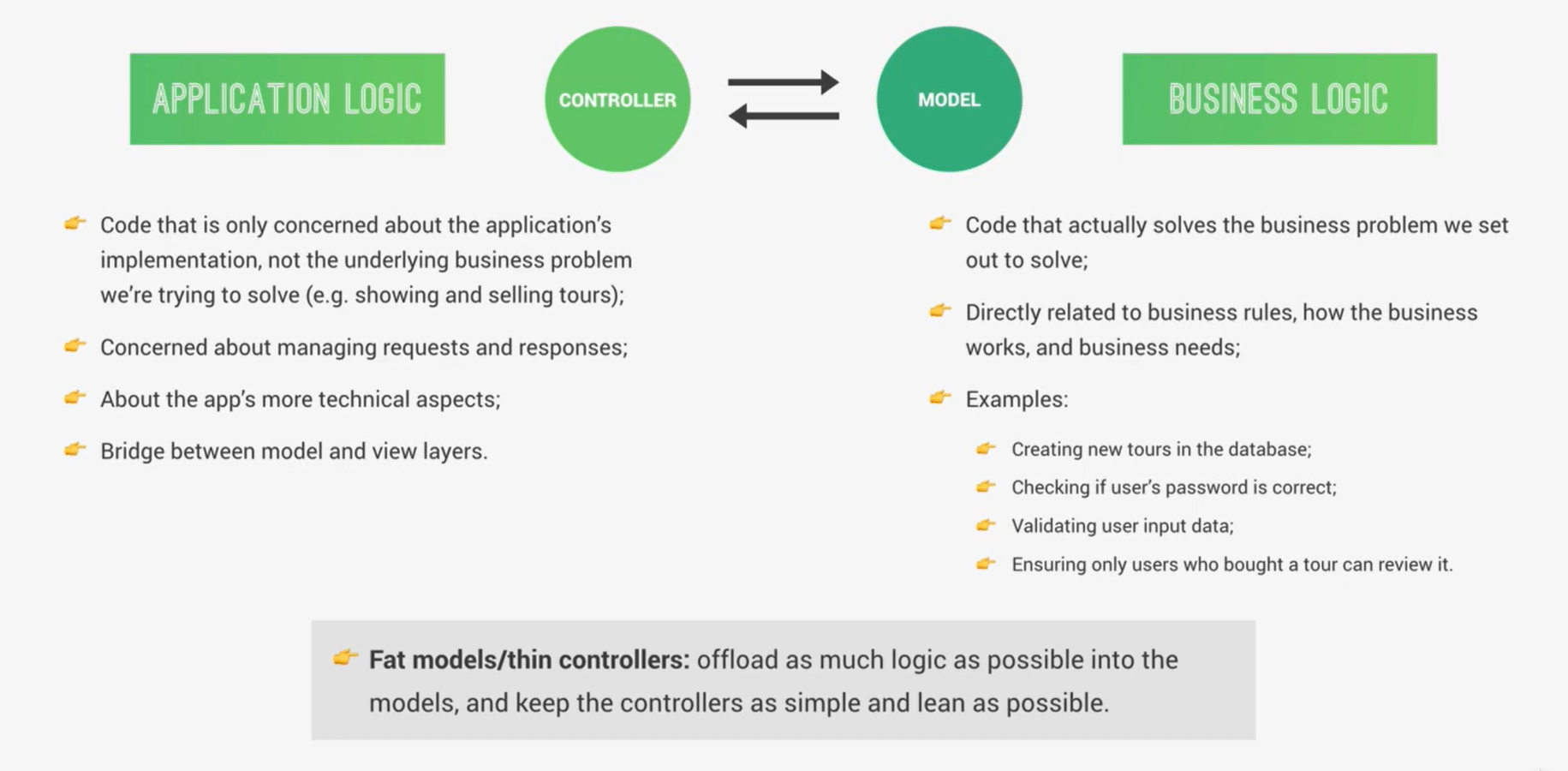
When a request from client, request will point to exact router and then go though controller logic

From controller, will take togic from model, for example, retrieve document from db or create a document

After getting data from the model, controller ready to send back a response to the client

If want render a website, When have a data, controller will select properly template and inject data into it, return for controller

Controller send a website with interface for the user



6. Refactoring for MVC

Split model: related to DB