

Developing the API with Node and Express



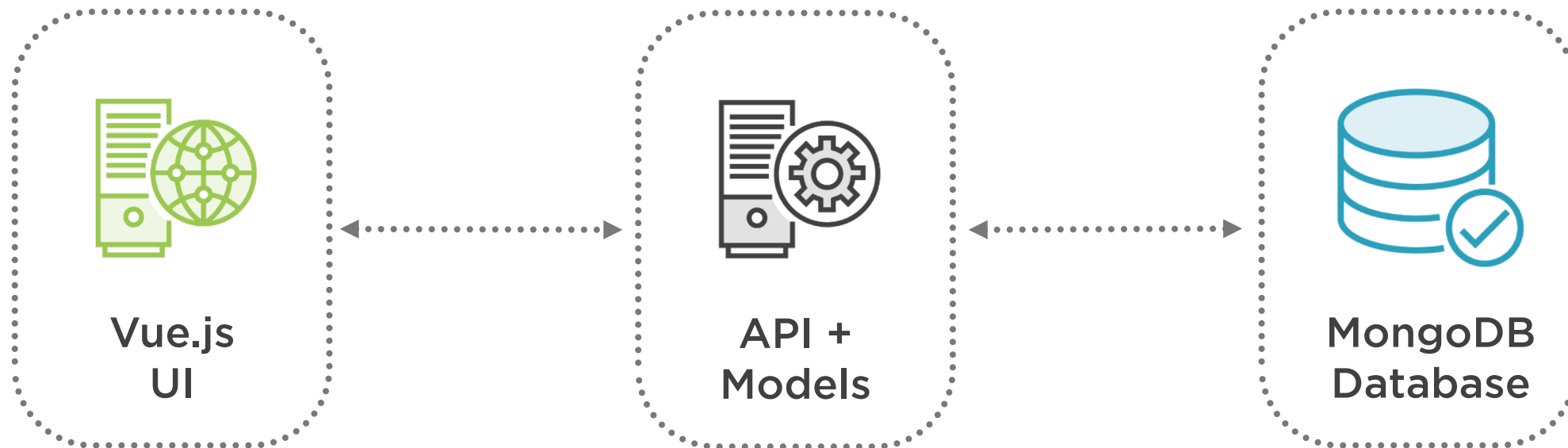
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Interface to Our Data



Review User Schema

```
const mongoose = require('mongoose')

const userSchema = mongoose.Schema({
  first: { type: String, required: true },
  last: { type: String, required: true },
  email: { type: String, required: true },
  password: { type: String, required: true },
  isActive: { type: Boolean, default: true },
  createdAt: { type: Date, default: Date.now }
})
```



User Model

```
const mongoose = require('mongoose')
const userSchema = mongoose.Schema({
  ...
})
const User = mongoose.model('User', userSchema)
module.exports = User
```



Review Transaction Schema

```
const mongoose = require('mongoose')

const transactionSchema = mongoose.Schema({
  userId: mongoose.SchemaTypes.ObjectId,
  transactionDate: { type: Date, required: true },
  transactionType: { type: String, required: true },
  description: { type: String, required: true },
  charge: Number,
  deposit: Number,
  notes: { type: String, default: '' },
  createdAt: { type: Date, default: Date.now }
})
```



Transaction Model

```
const mongoose = require('mongoose')
const transactionSchema = mongoose.Schema({
  ...
})

const Transaction = mongoose.model('Transaction',
transactionSchema)






module.exports = Transaction
```



Design the API








User Endpoint

HTTP Verb		CRUD Action
	POST	Create
	GET	Read
	PUT	Update / Replace
	PATCH	Update / Modify
	DELETE	Delete



Transaction Endpoint

HTTP Verb		CRUD Action
	POST	Create
	GET	Read
	PUT	Update / Replace
	PATCH	Update / Modify
	DELETE	Delete



```
client
  build
  config
  src
    assets
    components
    router
  static
  ...
```

```
server
  api
  models
  ...
```

◀ Client project

◀ Vue.js source folder

◀ Server project

◀ API endpoints

◀ Mongoose models



```
server
  api
    routes
      transaction.js
      user.js
    index.js
  models
    transaction.js
    user.js
```

◀ Our API routes or “endpoints”

◀ Index “bundle” file

◀ Our Mongoose Model files



User Route Example

```
const User = require('../models/user')

module.exports = function (router) {
  router.get('/user/:id', function (req, res) {
    User.findById(req.params.id).exec()
      .then(docs => res.status(200)
        .json(docs))
  })
}
```



Demo



Install Express.js

Build the API Endpoints

- User
- Transaction
 - Build off-screen and Review



Debugging and Testing the API



Demo



Postman

- Test sending requests to the API

Studio 3T

- Verify the data



Next Steps



API services

Tested with Postman

- Looking good
- Works as expected

What should we do next?

Vue.js client project “stub”

Vuetify

