

Taktika Educational Platform



Project Description

Taktika is a Jordanian for profit educational platform offering open online courses under many categories including but not limited to Finance, Human Resources, Pharma Plant Practices, Sales and Marketing.

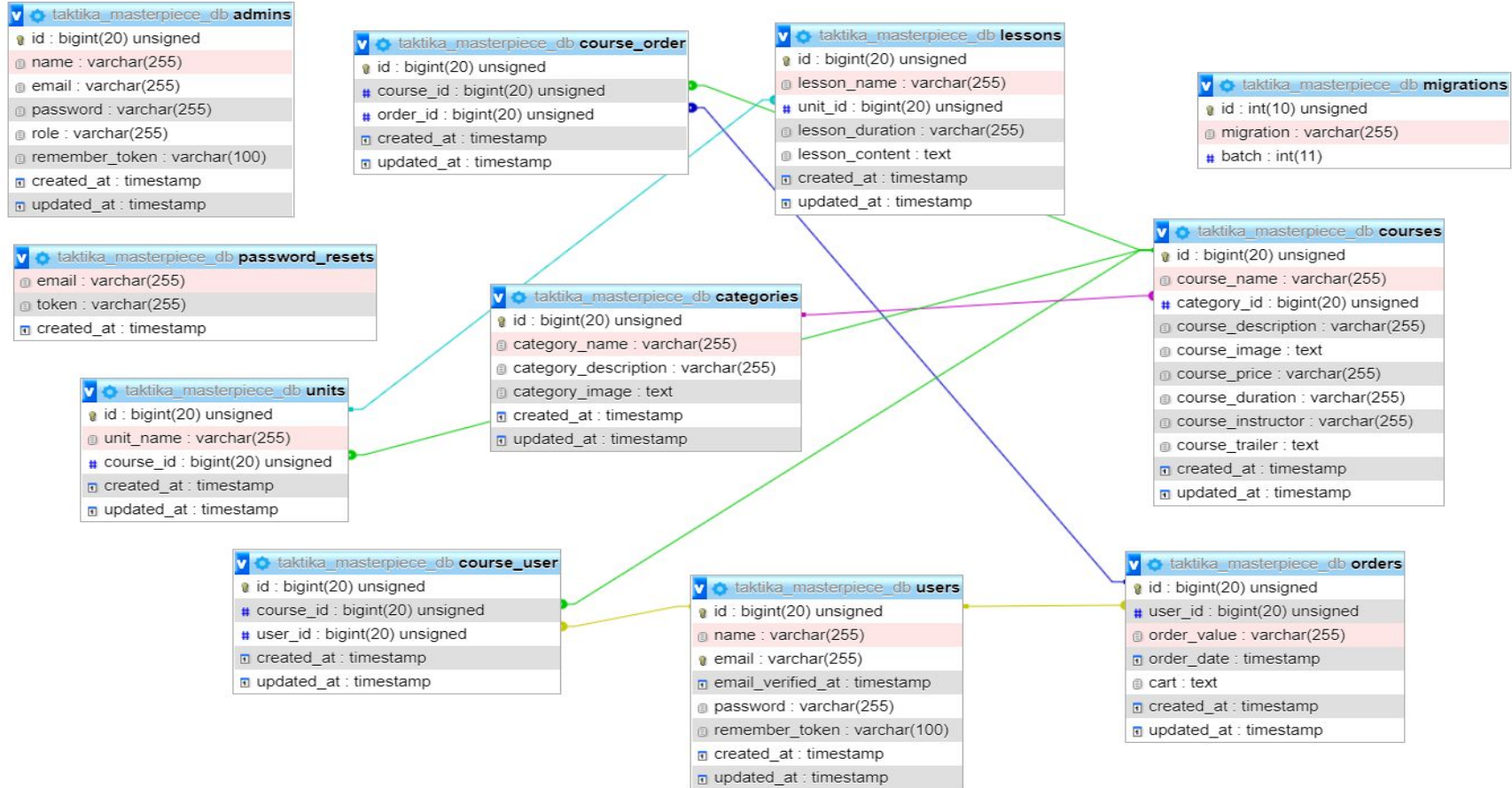
Used Technologies

- Laravel 5.8
- MySQL
- jQuery / Javascript
- HTML5
- CSS3
- Bootstrap

Code excerpts and their justification.

- In order to be compatible and responsive to all screens, a pro UI template was used with some modifications using bootstrap.
- There are some security justifications for some codes I've added, including and not limited to forms validation and hashing passwords.
- Created a dynamic cart and added a feature that prevents adding the same course twice.
- Created the reset password feature for both admins and users and the validated the reset password link that will be sent for their emails for a short limited time - for more security.

Database diagram



Obstacles

- Multi login systems (admin & user)
- Multi Forgot password feature (admin & user)
- Database Tables Structure
(courses/lessons/units)
- One order can hold more than one course simultaneously
- Users can't watch the course content unless he bought it.
- Apply credit cards payment using stripe.

Security

- Used regex on registration form.
- Used csrf protection to avoid Cross Site Request Forgery.
- Followed the Laravel best practices methods on each form (Delete, Post, Put, Get)
- Used a secure payment gateway (stripe).
- Hashing Passwords.
- Limited time links - forgot password feature

Test Cases

Many test cases have been implemented on many features throughout the website, for example the registration form was tested for every single case that may happen, from leaving some blank input fields, inserting wrong data formats, ignoring some essential regex rules to submitting a blank form. Similarly, all the other admin dashboard and public website forms were treated and tested for every single possible case.

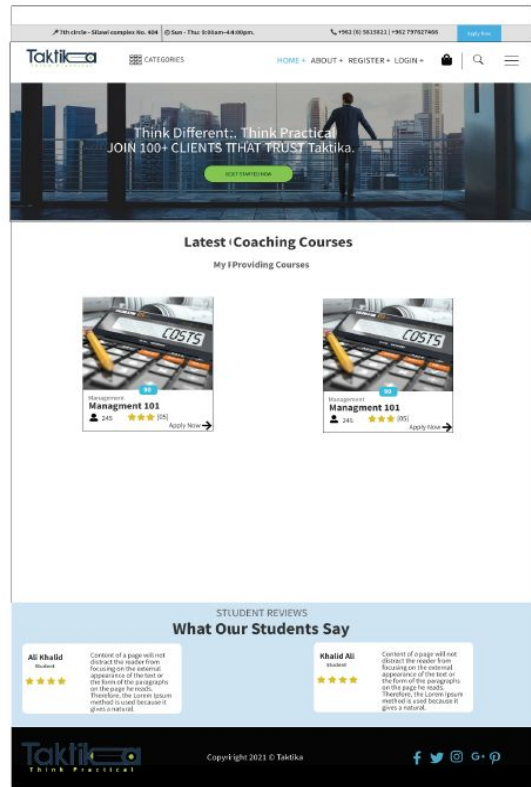
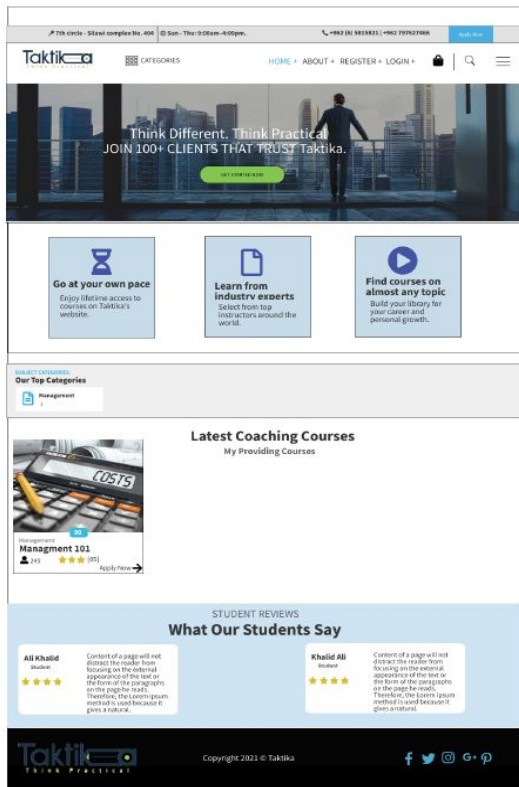
Other tests were inducted as well to make sure that payments are done securely and that the stripe payment system check the balance of the credit card and deduct the amount before the payment is accepted.

Finally, in the forgot password feature, some tests were done, including but not limited to checking if the requested email from the user exists in the database and if it exists, then an email will be sent to his email address with his personal changing password link.

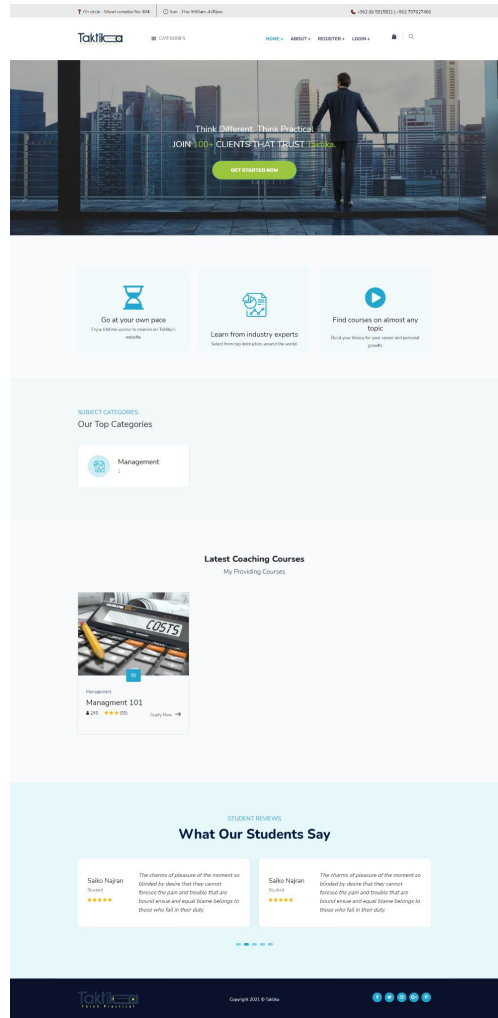
Research Points

- Stripe payments (<https://stripe.com/docs>)
- Multi Forgot Password feature (admins & users)
- Business logic for similar websites
- Sweet alerts usage.
(<https://realrashid.github.io/sweet-alert/>)
- Email Notifications.

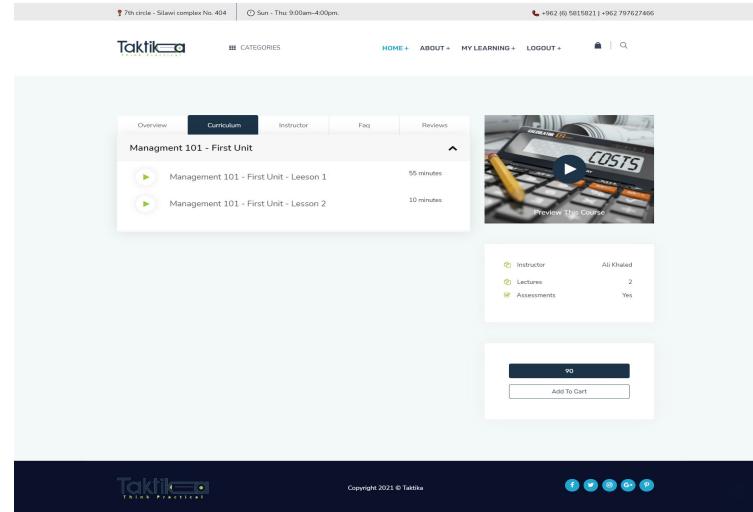
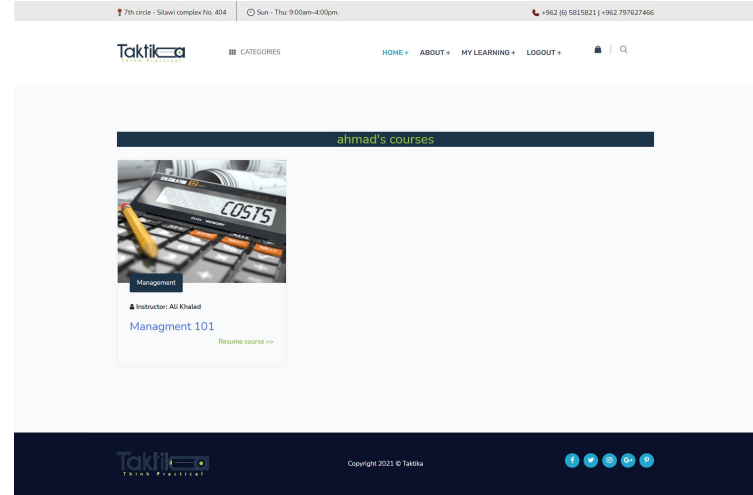
Project Mockup



Project Mockup



Project Mockup



Project Mockup & Database diagram

