

Chocotravel (Backend)

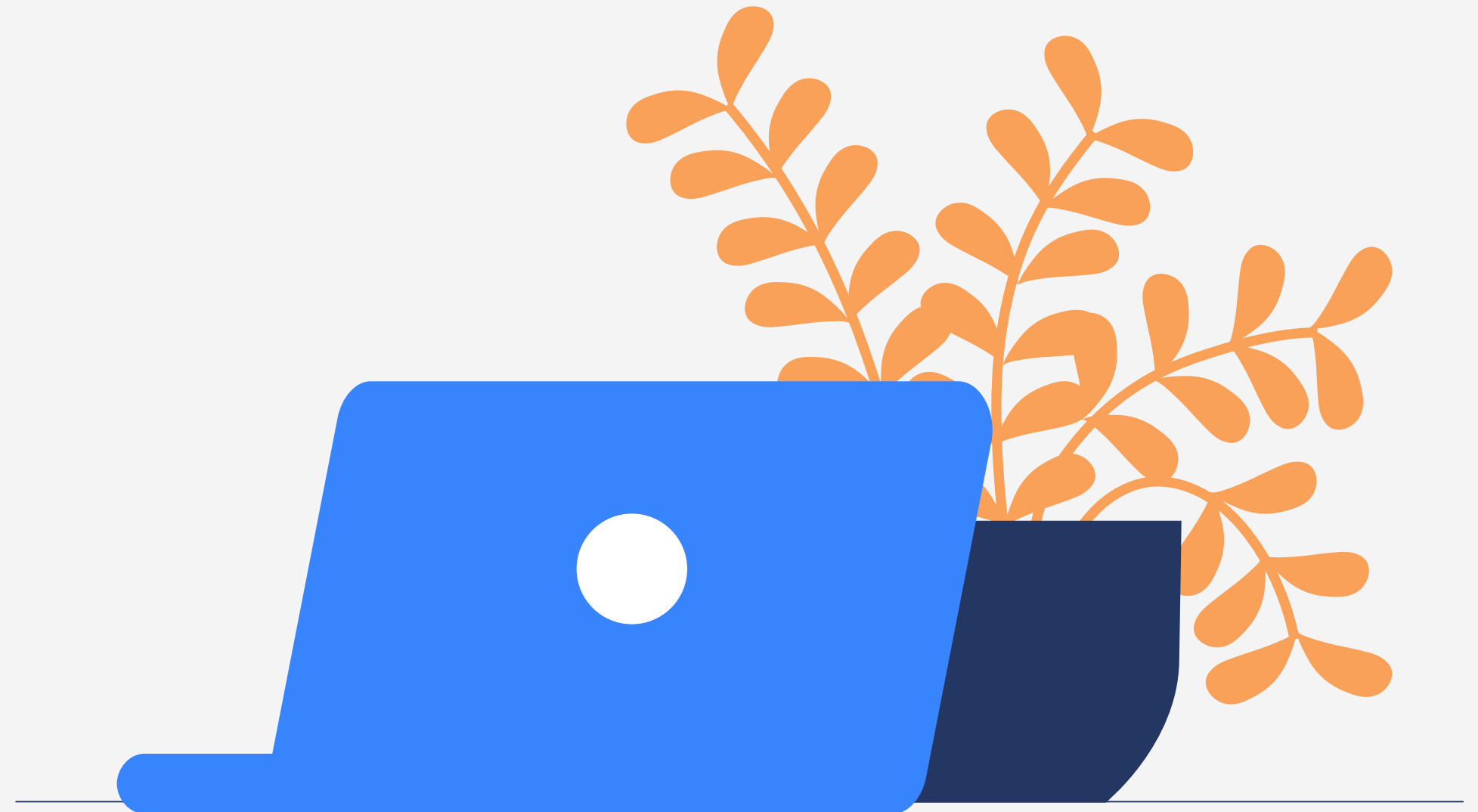
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Discipline: Web Programming
Practice time: Friday 14-16

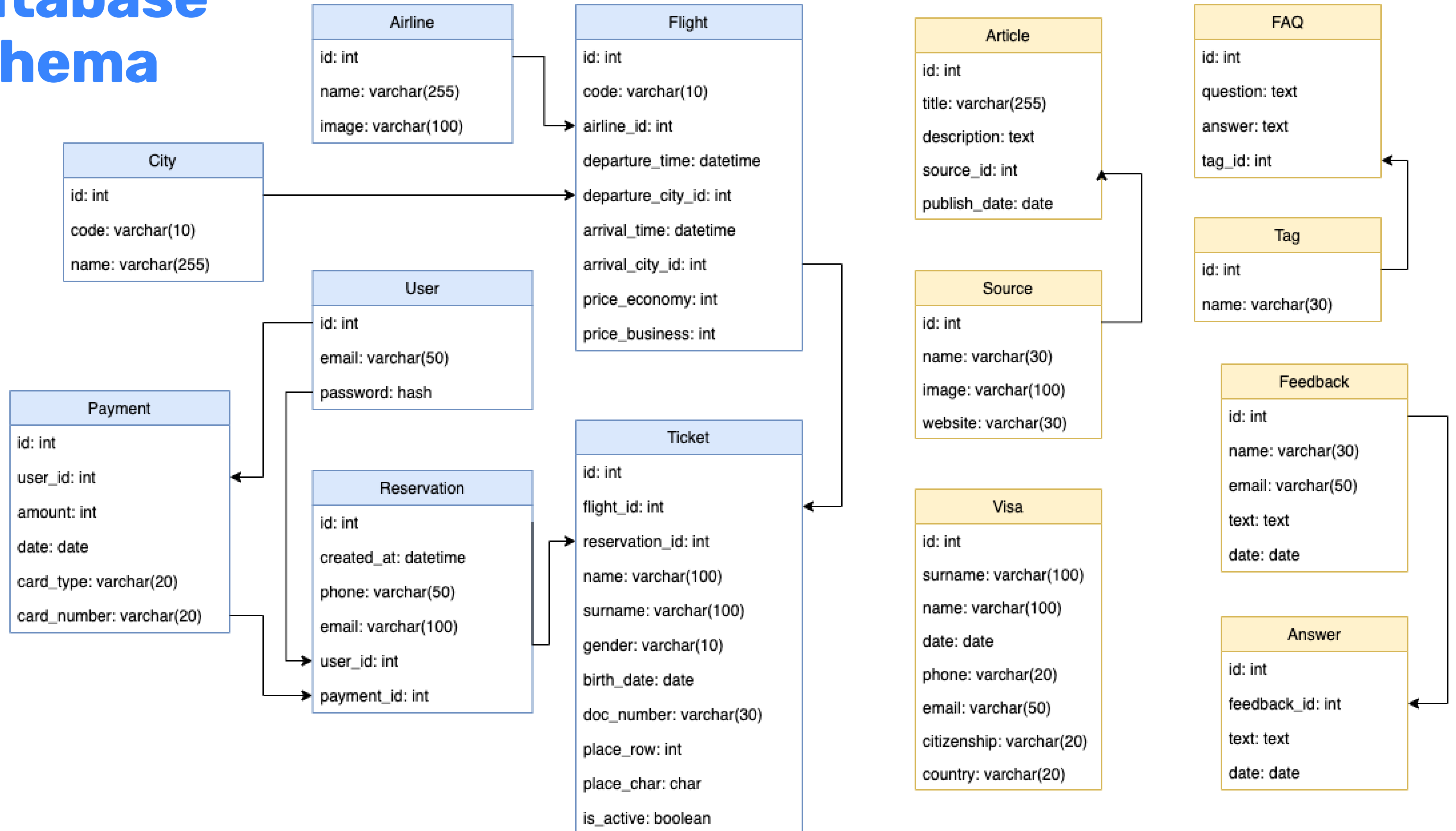


Dynamic pages


- Login / register
- Tickets search
- Blog
- Questions and answers
- Feedback
- Visa registration
- Tours
- Reservation
- Payment
- Personal cabinet



Database schema



Filling database with test data

 SCHEMAS DATASETS MOCK APIS SCENARIOS PROJECTS

	Field Name	Type	Options			
⋮	id	Row Number ⌵	blank:	0 %	Σ	×
⋮	first_name	First Name ⌵	blank:	0 %	Σ	×
⋮	last_name	Last Name ⌵	blank:	0 %	Σ	×
⋮	email	Email Address ⌵	blank:	0 %	Σ	×
⋮	gender	Gender ⌵	blank:	0 %	Σ	×
⋮	ip_address	IP Address v4 ⌵	blank:	0 %	Σ	×

ADD ANOTHER FIELD

Rows: 1000Format: CSV ▼Line Ending: Unix (LF) ▼Include: ☒ header ☐ BOM

Mockaroo

This service helps to generate thousands of records for testing according to the scheme that you specify

Work distribution

Basically, each of us created the backend of the pages for which we developed the frontend. The only thing, according to the requirements, the pages of payment, reservation and personal account appeared (which we did not have before). So the distribution has changed a bit.



-
- Feedback
 - Visa registration
 - Tickets reservation
 - Payment



-
- Login / Registration
 - Company blog
 - Questions and answers
 - Personal cabinet



-
- Main page
 - Tickets searching (a lot of functionality)

Alim's notes

What problems did I encounter during development

Regarding PHP, there have been moments when you write code, open a page, but it simply does not open or gives a 500 server error. Another point is that I had pieces of code that were duplicated on several pages, which makes it difficult to maintain the code.

What solutions did I find

Surely there are good tools for debugging PHP code, but for myself the fastest solution was to simply place echo commands in those parts of the code that could give an error and I just looked at what point the script stopped, from there it was already possible to find the problem. As for code duplication, it was very easy to solve, since PHP allows you to extend one script with another, that is, you implement the functionality in one file, and then just include it where you need it

My advice for web developers

Look for opportunities to reuse some code, and use frameworks like jQuery for JS to write more readable and cleaner code.



Shayakhmet's notes

What problems did I encounter during development

Didn't encounter any big problems, but met a lot of small ones. Since our development was frontend first, login and registration pages had no forms. There was no personal cabinet page. Troubleshooting JavaScript was, well, troublesome. Didn't know how exactly to implement a search function on the FAQ page. And so on.

What solutions did I find

AJAX helped with circumventing problems with the lack of forms. In-built web development tools made troubleshooting JS easier. Was thinking of using regex, but decided that indexOf takes care of all of my needs.

My advice for web developers

AJAX is love, AJAX is life. Keeping your all your code on their respective shelves is pretty nice. Also use more functions in PHP, they help keep your HTML code clean & DRY. But you probably know that already.



Arslan's notes



What problems did I encounter during development

I encountered several problems regarding both Frontend (mostly JavaScript) and Backend. The dynamic DatePicker was not easy to create from scratch and even the ready ones were not fully suitable for usage for our project. The slider filtration system was also a bit of problem as it required a big chunk of code. Lastly, the biggest problem was the creation a path for transit flights

What solutions did I find

For DatePicker I used Easypick and upgraded it heavily, i.e I added buttons to be able to choose for different types of flights. For the path problem, I tried several approaches and non of the worked. I tried to use Recursive Query in MySQL, but since the table was so big, I was getting 504 error. Then, I tried to get all the data from MySQL and to traverse a graph using BFS, but it was hard to implement as I had additional requirement for flight time. Both of these approaches worked for small samples but were inefficient for bigger ones.

My advice for web developers

Keep faith in your code.

Useful resources and self-study

01 W3Shools

A great guide to learn web development and more

02 BEM - <https://ru.bem.info/methodology/>

Great way to write pure CSS styles and classes

03 Mockaroo - <https://www.mockaroo.com/>

Helps to generate test data in any convenient way

04 PHP Documentation - <https://www.php.net/>

Documentation is the best source of information about how the technology works

05 jQuery - <https://jquery.com/>

Documentation is the best source of information about how the technology works

