

## PRACTICAL LESSON PLAN

**Subject:** Web Applications Development  
**Topic:** REST API: Client  
**Type:** ☒ Programming ☐ Setup

**Degree:** Informatics Engineering  
**Professor:** Noélia Correia (ncorreia@ualg.pt)  
**Institution:** University of Algarve

### GOALS

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In this lab you will build the **client side of the webmail system** from Lab6. This tutorial, provided in [1], sheds light on the steps involved in developing the client side of a REST API, using React. As future work you will be asked to develop your own REST API, so take a close look at this example. Let us remember the big picture of the web application:

- ◊ The webmail server side acts as a proxy by communicating with the mail server, so the client should communicate with the webmail server.
- ◊ STMP is the communication protocol in use (to send emails), and related SMTP server information is stored in a text file.
- ◊ The webmail server allows the client to maintain contacts and send emails.

### TASKS

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Go to [2] and adapt the client side code (remove what is not necessary and adapt layout) so that it meets the server code of Lab6. See explanations in [1].

### REFERENCES

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- [1] Frank Zammetti, “Modern Full-Stack Development”, 2020.
- [2] <https://github.com/fzammetti/books/tree/master/modern-full-stack-development/mailbag/client>