WEB PROGRAMMING Practice M6

1. Browser: Safari, Version 14.0

2. Operating system and Computer Architecture:

```
System Software Overview:
 System Version:
                            macOS 10.15.7 (19H2)
 Kernel Version:
                            Darwin 19.6.0
Hardware Overview:
 Model Name:
                              MacBook Air
 Model Identifier:
                              MacBookAir8,2
 Processor Name:
                              Duai-Core Intel Core i5
 Processor Speed:
                              1.6 GHz
 Number of Processors:
 Total Number of Cores:
                              2
 L2 Cache (per Core):
                              256 KB
 L3 Cache:
                              4 MB
 Memory:
                              8 GB
```

3. How REST helps your web application:

REST's simplicity (simpler data formats. Such a s JSON, are typically used) and reduction of overhead are its main benefits.

- 4. Additional features:
 - a. Add an updateContact() function to change an existing contact.

b. Set HTTP response code by create a separate file "HTTPStatusCode"

```
//Get a list of mailboxes
app.get("/mailboxes",
async (inRequest: Request, inResponse: Response) => {
    console.log("GET /mailboxes (1)");
    try {
        const mailboxes: IMAP.Worker = new IMAP.Worker(serverInfo);
        const mailboxes: IMAP.Hailbox[] = await imapWorker.listMailboxes(); //listMailboxes: capture the image console.log("GET /mailboxes (1): Ok", mailboxes);
    inResponse.json(mailboxes).status(code.default.GetBoxListS_code);
} catch (inError) {
        console.log("GET /mailboxes (1): Error", inError);
        inResponse.send("error").status(code.default.GetBoxListF_code);
} }
};

//182
//182
//Get a list of messages in a specific mailbox
app.get("/mailboxes/imailbox",
        async (inRequest: Request, inResponse: Response) => {
        console.log("GET /mailboxes (2)", inRequest.params.mailbox);
        try {
        const imapWorker: IMAP.Worker = new IMAP.Worker(serverInfo);
        const messages: IMAP.IMessage[] = await imapWorker.listMessages({ //listMessages: get an array of IAP.IMe mailbox : inRequest.params.mailbox );
        console.log("GET /mailboxes (2): Ok", messages);
        inResponse.json(messages).status(code.default.GetMessageListS_code);
        } catch (inferror) {
        console.log("GET /mailboxes (2): Error", inError);
        inResponse.send("error").status(code.default.GetMessageListF_code);
    }
}
```