Crossplatform usage of compiled C library with golang and web client

The project domain is solving linear systems of equations. Currently implemented only matrix method.

- Lab is adaptation of lab1 with web client
- Golang currently used as http server, covered by unit tests
- Webserver servers static files and provides linear system solving api
- Web client is implemented with vanilla js
- The lab reused compiled C library from lab1
- Supported platforms:
 - o darwin-arm64
 - o linux-arm64
 - o linux-amd64

Testing

Run tests of webserver and library The script should detect your platform and run version for it.

```
# In root directory
./test.sh
```

To run tests on another supported platform run:

```
./test.sh <platform>
```

Running

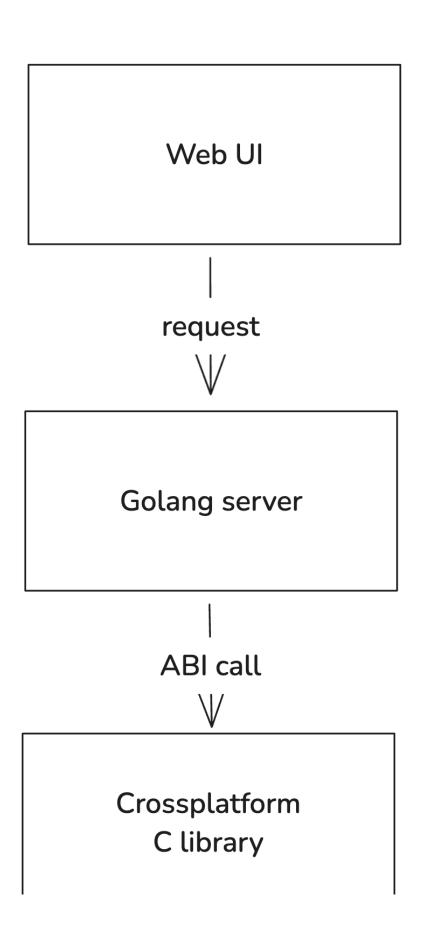
Run webserver The script should detect your platform and run version for it.

```
# In root directory
./run.sh
```

To run webserver on another supported platform run:

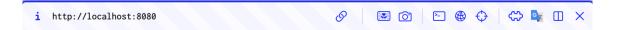
```
./run.sh <platform>
```

Architecture



I

WebUI



Linear System Solver

Input Matrix

Add Row Remove Row Add Column Remove Column					
Equation	$\mathbf{x_1}$	$\mathbf{x_2}$	х3	= b	
1	1	0	1	6	
2	0	-3	1	7	
3	2	1	3	15	

Output Matrix

$\mathbf{x_1}$	X ₂	x3
2	-1	4