Our web server becomes

```
web_server() {
    while (1) {
        int sock = accept();
        thread_fork(handle_request, sock);
    }
}

handle_request(int sock) {
    Process request
    close(sock);
}
```

Benefits

- **Responsiveness**
  an application can continue running while it waits for some events in the background

- **Resource sharing**
  threads can collaborate by reading and writing the same data in memory (instead of asking the OS to pass data around)

- **Economy of time and space**
  no need to create a new PCB and switch the entire context (only the registers and the stack)

- **Scalability in multi-processor architecture**
  the same application can run on multiple cores