TIE-23500 / TIE-23506 Web Software Development : Exam

Date: 2.3.2017

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- All answers should easily fit on a single answer sheet.
- Write on each paper your **name** and your **student number**
- No additional materials, calculators etc. allowed.

APIs

7) You see a client sending the following requests to a REST API at example.com. Explain what you assume each request to do. (one sentence per request, **3 points**)
   a. GET http://www.example.com/customers/12345
   b. GET http://www.example.com/customers/12345/orders
   c. POST http://www.example.com/customers/12345/orders

Sessions & Security

8) Mallory is writing a blog post on a blogging service where she wrote the following as a title for the post. The **beginnings** of the texts she wrote are shown below. What is she trying to do in the two cases? Explain briefly. (**2 points**, 1 for each)
   a) `<script>` ..... rest of the text not shown ....
   b) `'); INSERT INTO` ..... rest of the text not shown ....

Django

9) (total 4 points)
   The following snippets are a Django view and the corresponding urls.py. The service hosts **private** photo albums for a number of users.

```
views.py
1  @login_required(login_url='/login/')
2  def del_page(request, album, page_num):
3      page = Page.objects.get_object_or_404(album=album,number=page_num)
4      page.delete()
5      return HttpResponseRedirect("/albums/")
```

```
urls.py
urlpatterns = [
    url(r'^delete/(?P<album>\w+)/(?P<page_num>[0-9]{2})$', views.del_page),
    ...other urls...
```

(**3 points**) Briefly explain 3 different scenarios that can what happen when a user visits the URL: http://someserver.com/delete/vacation/42
Use the line numbers if necessary.

(**1 point**) There is an authorization problem in the code. What is it? (Max 2 sentences.)