Practical Course: Testing Microservices Systems

Preliminary Meeting, 01.02.2024
Who are we?

Informatics i4 – Chair of Software and Systems Engineering

Prof. Dr. Alexander Pretschner

Lena Gregor
What are Microservice Systems?
What are Microservice Systems?
What are Microservice Systems?

Why is Testing them so interesting?
What you will learn

- REST
- RabbitMQ
- Testcontainers
- Docker
- Spring
Organization (preliminary)

- MS relevant tools and frameworks
- Project phase
- Evaluation & Reporting
<table>
<thead>
<tr>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Participants: 12 Students</td>
</tr>
<tr>
<td>Working in Teams: 3-4 Students / Team</td>
</tr>
<tr>
<td>Weekly Meetings (Mandatory): Thursdays, 14:00-16:00</td>
</tr>
</tbody>
</table>
Prerequisites

<table>
<thead>
<tr>
<th>You are</th>
<th>Experienced in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor’s or Master’s student</td>
<td>• version control (Git)</td>
</tr>
<tr>
<td></td>
<td>• Java</td>
</tr>
<tr>
<td></td>
<td>• testing monolithic or client-server applications</td>
</tr>
<tr>
<td></td>
<td>(recommended)</td>
</tr>
</tbody>
</table>
**Administrative**

**Application:** until 11\(^{th}\) of February to be prioritized
With CV, grade report and short motivational statement
Through the form on our website (link see below)

Don’t forget the **registration** via https://matching.in.tum.de/

For everything else refer to the practicum homepage:
https://go.tum.de/301971