

# Hacker Contest, Summer 2019

## Registration Challenge

**usd AG**

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# 1 Introduction

Like every semester, the hacker contest is a popular course. Because the number of seats is limited, the selection of students is achieved using this registration exercise. Please be aware that you do not have to find all flags to register to the course. Every flag you find increases the possibility to get a seat. If there are only few registrations, even a small number of flags can get you a seat.

## 1.1 Submission policy

You have to provide your submission in **one** PDF file. The **six** flags you have to find, are in the format “`usd{1234567890abcdef}`”. In addition to each flag, you must provide a **short** write-up. The write-up must contain a description how you obtained the flag and which tools you used. The submission is done by mail. You must **not** work in groups or share your research with any other participants and/or third parties, before the deadline ends.

You must provide the following information on the first page of your document: name, matriculation number and your own mail address.

The submission deadline is **04/22/2019 at 23:59:59**. The timestamp of the receiving mail server determines the time of your submission.

Please send your submission to [hackercontest@usd.de](mailto:hackercontest@usd.de)

If you have any questions about the tasks, feel free to contact us at [hackercontest@usd.de](mailto:hackercontest@usd.de). For fairness reasons, we cannot provide you with any help how to solve the task. If you cannot find any/more flags: try harder.

## 1.2 Tools

You are free to choose whatever tools you want to solve the challenges. However, keep in mind, it's possible to get every flag with a free GNU/Linux system like Kali.

## 2 Task

### 2.1 Setting

An international mobile app development company is searching for a strategic partner that is able to pentest all of their apps before they are delivered to the customer. In order to find the best company for the job, the developers decided to hide six flags in one of their applications and ask people to find the flags as application for the job.

Are you up for the challenge?

### 2.2 Tasks

Your task is to analyze the provided android application. You may run the application on a physical device or use an emulator. Of course, you may also use other tools to help you get along.

Please answer the following questions:

- Which six flags were hidden in the application and where?
- What recommendations would you give to the developers?