

## EE/CPRE/SE 491 Bi-Weekly Report sdmay21-06

### Pentest a Payment Provider

Report Period: 1/25/21 - 2/8/21

Client & Advisor: Benjamin Blakely

#### Team Members & Roles:

Max Solaro - Chief Pentester  
Matthew Maiman - Testing Engineer  
Ryan Anderson - Lead Reporter  
Nathan Key - Editor  
Priyanka Kadaganchi - Facilitator & Scribe  
Jacob Conn - *Undecided*  
KayAnne Bryant - *Undecided*

#### Weekly Summary:

As this is the first work period of the semester, our group dedicated time to exploring and understanding the API infrastructure utilized by the Dwolla network in addition to reviewing the web dashboard available to Dwolla clients. Our team was assigned two new members for this semester, and therefore we used the last two weeks to meet and familiarize ourselves. As a team, we discussed the abilities and strengths of each group member to better assign work and team roles. The scope of our penetration test will encompass the client API and the web dashboard. With the strengths of our seven group members established, we assigned two teams to either area of work for the pentest, three for the web dashboard and four for the API. Going forward, we plan to further explore and understand the requests and variables in the API environment in addition to early scoping work on the web-side.

#### Past Week Accomplishments:

We have established communications with the two new members of our group as well as set up meetings with our advisor/client on a bi weekly basis. Additionally, we began our preliminary investigation into the different aspects of the test we will be conducting and began scoping out roles and responsibilities for team members.

#### Pending Issues:

We have no pending issues at this time.

#### Individual Contributions:

Name	Contributions	Hours last 2 weeks	Cumulative Hours
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Max Solaro	Studied API documentation and began testing dwolla postman collection/environment. Working on understanding the API architecture	6	6
Matthew Maiman	Established team architecture, began preliminary assessment of API	5	5
Ryan Anderson	Refreshed memory on client API and WebApp. Began vulnerability assessment of client dashboard.	6	6
Nathan Key	Facilitated team communications, minor investigation of API	3	3
Priyanka Kadaganchi	Studied API documentation and began setting up Postman for dwolla testing. Will begin assessment of the Dashboard.	3	3
Jacob Conn	Research to get up to speed with the rest of the team, minor investigation of API. Began preliminary assessment of the Dashboard	4	4
KayAnne Bryant	Researched to get up to speed on the project, minor investigation of the API, set up some needed tools.	5	5

**Plans For Upcoming Week:**

Since we are still very early in the project execution, these are general tasks for each group member to accomplish. In the coming weeks, we will further decompose tasks onto an individual or sub-team level.

- Become more familiar with Dwolla’s API and web application environment
- Set up sandbox accounts
- Explore the API in Postman and begin testing provided SDKs
- Early discovery and footprint of web dashboard
- Vulnerability research and tool discovery for use with API and web dashboard

**Advisor Meeting Summary:**

This last week’s meeting was the first of the semester with our advisor. We have the benefit of our advisor also being our client, which helps facilitate and optimize communications regarding professional assistance and task assignment/decomposition. For this meeting, we also had a small meet-and-greet for our two new members in addition to further discussing their roles in our project. Furthermore, we discussed our discoveries and progress in exploring and understanding the API and web dashboard. We began to outline teams and tasks moving forward, and set a goal of having the API

and web dashboard mastered by the next meeting so we may begin work on vulnerability discovery and analysis.