Lab 3 Threat Document

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| ID | Type | Element | Description | Impact |
| T1 | Spoofing | 2.1 Get address info | A hack app pretending to be Mapbox API and sends fake address data to “Get address info”. | The fake address data may contain harmful code and cause app crash. |
| T2 | Spoofing | 4.4 Create contact | A hack app pretending to “Fill in info in ContactManager” and sends fake location and contact data to “Create contact”. | The fake data may contain harmful code and cause app crash. |
| T3 | Spoofing | User | A hack app pretending to be Contact Manager and creates a fake contact (4.4) which is displayed to the User with either the correct or incorrect contact information as desired by the hacker’s programming. | The fake contact information may be a criminal’s desired meeting place with the User (criminal is a e.g. serial killer, con artist, etc.) instead of the location it should have been. |
| T4 | Tampering | 4.2 Open ContactManager | A snuck malware may modify features of “Open ContactManager”. | Something other than the intended application could be launched (spoof or otherwise). |
| T5 | Tampering | Data flow: from 2.1 Get address info to 2.2 Create marker | A snuck malware may intercept (hooking, etc.) the address info sent by “Get address info”, modify it, and send to “Create marker”. | Marker created at wrong location. |
| T6 | Tampering | Data flow: from 2.3 Apply style to marker to 2.4 Create popup with info | A snuck malware may modify information about which style is sent by 2.3 or alter the style itself. | The custom style may contain malicious code or use incompatible parameters which crash the application. |
| T7 | Repudiation | Data flow: Address location query (from 2.1 Get address info to Mapbox API) | The data that the user sends to Mapbox API could be modified by some attacker and they could deny this action. We do not have any logs that say what data the user actually sent so we have no way of proving there was an attack. | The app will receive incorrect information from the Mapbox API and the marker location may be wrong or may not be displayed at all. |
| T8 | Repudiation | Data flow: Location contact info (from 4.1 to 4.2 Open ContactManager) | The contact information could be modified by some attacker and they could deny this action. We do not have any logs that say what the original contact information was and therefore have no way of proving there was an attack. | The contact that is created will not have the correct information or perhaps no contact will be created at all. |
| T9 | Repudiation | User Settings | The user settings for privacy could be modified and we would have no way of proving an attack was made on these settings. | The user would expect their contact to have a private address and the address would not be private. |
| T10 | Information Disclosure | Data flow: Address location query (from 2.1 Get address info to Mapbox API) | A hack app pretending to be Mapbox API intercepts and takes user address data. | The fake app could share information or post it online and would have information about the user’s recent address queries or their possible location. |
| T11 | Information Disclosure | Data flow: Location contact info (from 4.1 to 4.2 Open ContactManager) | A hack app pretending to be ContactManager intercepts and takes contact information. | The fake app has access to the contact data and could share this contact info online. |
| T12 | Information Disclosure |  |  |  |
| T13 | Denial of Service | Data flow: Address location query (from 2.1 Get address info to Mapbox API) | User address data could be modified in order to not allow the Mapbox API to return a valid address location. | The user would input a valid address but the data would be corrupted such that the Mapbox API does not return valid address information and no marker is displayed. |
| T14 | Denial of Service | 4.2 Open ContactManager | A hack app could consume all CPU time not allowing ContactManager to open when it is supposed to. | The user would expect ContactManager to open in order to create a contact but the app will never open. |
| T15 | Denial of Service |  |  |  |
| T16 | Elevation of Privilege |  |  |  |
| T17 | Elevation of Privilege |  |  |  |
| T18 | Elevation of Privelege |  |  |  |