Guardiões da Saúde - Modelagem de Ameaças

22/07/2022

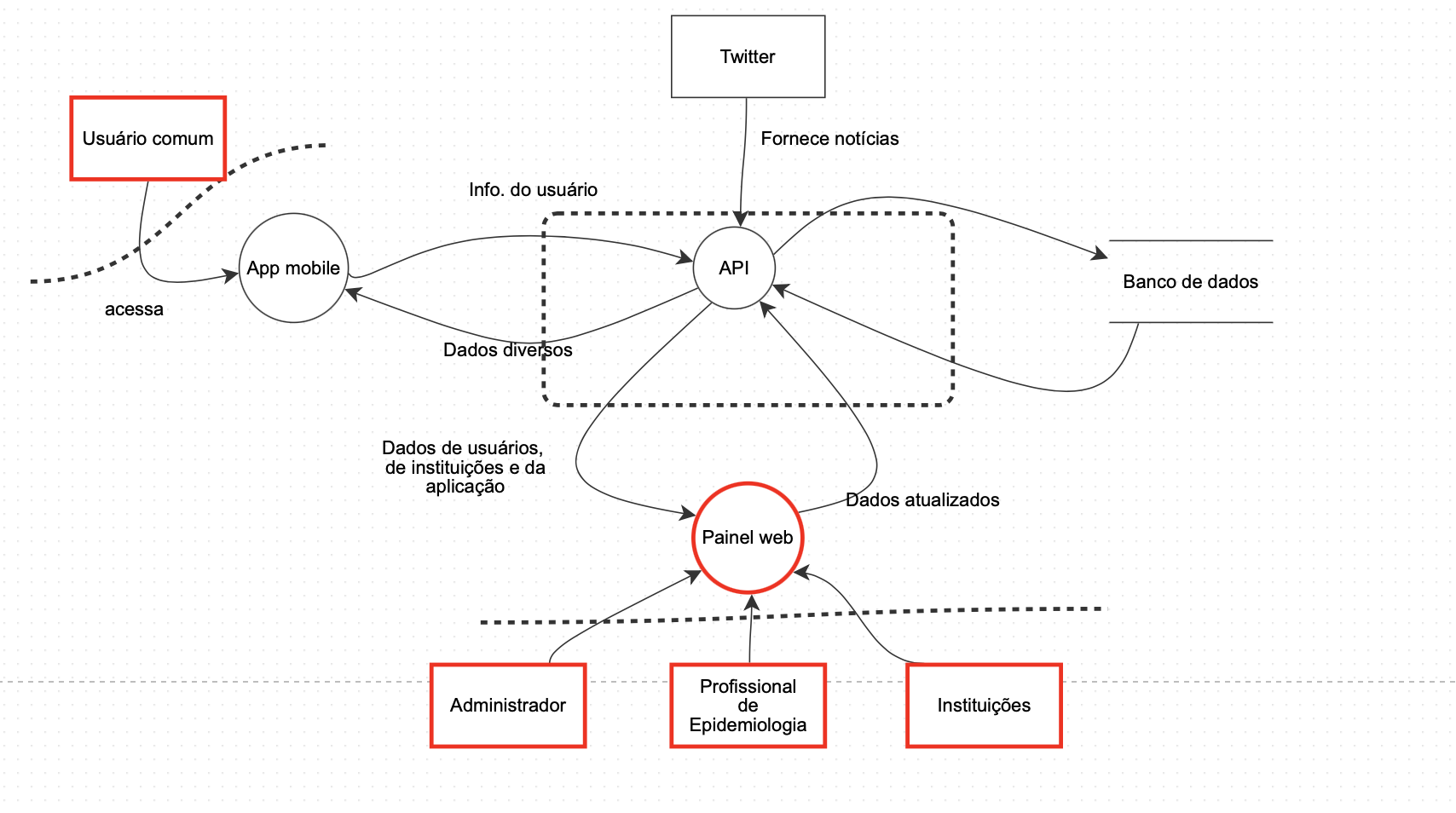
Alunos:

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* Nícolas Roberto - 200042360

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Missão do Guardiões da Saúde:

Coletar e monitorar dados coletados dos usuários e disseminar essas informações para informar a população.



JSON do DFD com ameaças:

{

"version": "2.0",

"summary": {

"title": "Guardioes da Saude Threat Model",

"owner": "",

"description": "",

"id": 0

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"detail": {

"contributors": [],

"diagrams": [

{

"cells": [

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"x": -580,

"y": -1005

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"size": {

"width": 112.5,

"height": 60

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"attrs": {

"text": {

"text": "Twitter"

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"body": {

"stroke": "#333333",

"strokeWidth": 1,

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"shape": "actor",

"zIndex": 4,

"id": "02c86c8a-b859-4bca-af83-832bfc6fa6f1",

"data": {

"type": "tm.Actor",

"name": "Twitter",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"providesAuthentication": false,

"hasOpenThreats": false,

"threats": []

}

},

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"position": {

"x": -259,

"y": -840

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"size": {

"width": 120,

"height": 60

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"attrs": {

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"text": "Banco de dados"

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"topLine": {

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"strokeDasharray": null

},

"bottomLine": {

"strokeWidth": 1,

"strokeDasharray": null

}

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"shape": "store",

"id": "1f7ce821-7c96-425a-9ff5-9fedc8e07676",

"zIndex": 5,

"data": {

"type": "tm.Store",

"name": "Banco de dados",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"isALog": false,

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"isSigned": false,

"hasOpenThreats": false,

"threats": []

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"name": "classic"

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"strokeDasharray": null

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"name": "",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"protocol": "",

"isEncrypted": false,

"isPublicNetwork": false,

"hasOpenThreats": false,

"threats": []

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"id": "392143ea-e392-4ef2-8253-5d03b48448c2",

"source": {

"cell": "ff6b4316-bba5-4fa3-975a-f8475bb08d18"

},

"target": {

"cell": "470623a5-093b-4c2c-8db8-f344fdff805b"

},

"vertices": [

{

"x": -800,

"y": -816

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{

"x": -730,

"y": -840

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{

"x": -630,

"y": -840

}

]

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"threats": []

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"id": "0d169703-12b7-416c-a8b6-f068ae113a82",

"source": {

"cell": "470623a5-093b-4c2c-8db8-f344fdff805b"

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"vertices": [

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"y": -770

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{

"x": -720,

"y": -770

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]

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"x": -300,

"y": -730

}

]

},

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"strokeDasharray": null

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"protocol": "",

"isEncrypted": false,

"isPublicNetwork": false,

"hasOpenThreats": false,

"threats": []

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"id": "ca8cec78-0a0d-4ade-9bd1-fe51beb20132",

"source": {

"cell": "470623a5-093b-4c2c-8db8-f344fdff805b"

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"target": {

"cell": "1f7ce821-7c96-425a-9ff5-9fedc8e07676"

},

"vertices": [

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"y": -872

}

]

},

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"reasonOutOfScope": "",

"protocol": "",

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"threats": []

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"source": {

"cell": "470623a5-093b-4c2c-8db8-f344fdff805b"

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"x": -650,

"y": -680

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]

},

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"strokeDasharray": null

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"reasonOutOfScope": "",

"protocol": "",

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"isPublicNetwork": false,

"hasOpenThreats": false,

"threats": []

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"source": {

"cell": "228c3d96-23e2-46bb-8b54-e51cc8a62396"

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"vertices": [

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"x": -430,

"y": -680

}

]

},

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"shape": "flow",

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"stroke": "#333333",

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"strokeDasharray": null

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"hasOpenThreats": false,

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"cell": "3f31e51b-bdb7-4c87-8b8e-0ba01f806562"

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"target": {

"cell": "ff6b4316-bba5-4fa3-975a-f8475bb08d18"

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"vertices": [

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"x": -963.75,

"y": -816

}

]

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"protocol": "",

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"isPublicNetwork": false,

"hasOpenThreats": false,

"threats": []

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"id": "a5089675-879a-4b8f-93f4-6e3ac81992f2",

"source": {

"cell": "c254848b-41a2-486b-b9de-26c5b985000b"

},

"target": {

"cell": "228c3d96-23e2-46bb-8b54-e51cc8a62396"

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"vertices": [

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"x": -650,

"y": -550

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]

},

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"shape": "flow",

"attrs": {

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"protocol": "",

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"hasOpenThreats": false,

"threats": []

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}

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"stroke": "#333333",

"strokeWidth": 1,

"targetMarker": {

"name": "classic"

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"strokeDasharray": null

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"data": {

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"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"protocol": "",

"isEncrypted": false,

"isPublicNetwork": false,

"hasOpenThreats": false,

"threats": []

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"id": "40634027-af8d-4733-a225-cacc283b0026",

"source": {

"cell": "88a793c3-413c-4f09-8cd1-4ce4861b70c0"

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"target": {

"cell": "228c3d96-23e2-46bb-8b54-e51cc8a62396"

}

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{

"shape": "trust-broundary-curve",

"attrs": {

"line": {

"targetMarker": "",

"sourceMarker": ""

}

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"width": 200,

"height": 100,

"zIndex": 10,

"connector": "smooth",

"labels": [

""

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"data": {

"type": "tm.Boundary",

"name": "",

"description": "",

"isTrustBoundary": true,

"hasOpenThreats": false

},

"id": "f1fba9e3-b115-4214-9cc2-d67b4dffbf7d",

"source": {

"x": -1050,

"y": -810

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"target": {

"x": -830,

"y": -910

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"shape": "trust-broundary-curve",

"attrs": {

"line": {

"targetMarker": "",

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"width": 200,

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"zIndex": 10,

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"attrs": {

"text": {

"text": ""

}

}

}

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"data": {

"type": "tm.Boundary",

"name": "",

"description": "",

"isTrustBoundary": true,

"hasOpenThreats": false

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"id": "c05223a7-0d6e-4f70-ab43-53a8e87d2e26",

"source": {

"x": -720,

"y": -560

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"target": {

"x": -260,

"y": -570

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"position": {

"x": -737.5,

"y": -900

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"size": {

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"text": {

"text": "Info. do usuário\n"

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"zIndex": 11,

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"name": "Info. do usuário\n",

"hasOpenThreats": false

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"text": {

"text": "Dados diversos"

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"shape": "td-text-block",

"zIndex": 12,

"id": "ef184ef8-d666-4fda-876a-062865923437",

"data": {

"type": "tm.Text",

"name": "Dados diversos",

"hasOpenThreats": false

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"position": {

"x": -756,

"y": -680

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"size": {

"width": 50,

"height": 26.66666666666666

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"attrs": {

"text": {

"text": "Dados de usuários, \nde instituições e da\naplicação\n"

}

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"shape": "td-text-block",

"zIndex": 13,

"id": "92971349-7c29-4486-bef1-fbb63c18e603",

"data": {

"type": "tm.Text",

"name": "Dados de usuários, \nde instituições e da\naplicação\n",

"hasOpenThreats": false

}

},

{

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"x": -452,

"y": -680

},

"size": {

"width": 112.5,

"height": 60

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"attrs": {

"text": {

"text": "Dados atualizados"

}

},

"shape": "td-text-block",

"zIndex": 14,

"id": "194434b2-a005-42b1-8362-81e1e4148257",

"data": {

"type": "tm.Text",

"name": "Dados atualizados",

"hasOpenThreats": false

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"x": -520,

"y": -945

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"size": {

"width": 112.5,

"height": 60

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"attrs": {

"text": {

"text": "Fornece notícias"

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"shape": "td-text-block",

"zIndex": 15,

"id": "b7d0f6d7-f310-4ac7-935e-061d31692b9c",

"data": {

"type": "tm.Text",

"name": "Fornece notícias",

"hasOpenThreats": false

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{

"position": {

"x": -673.75,

"y": -860

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"size": {

"width": 300,

"height": 140.625

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"shape": "trust-boundary-box",

"attrs": {

"headerText": {

"text": ""

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},

"zIndex": 16,

"id": "48840c5c-253d-4645-ba24-72b84dae771d",

"data": {

"type": "tm.BoundaryBox",

"name": "",

"description": "",

"isTrustBoundary": true,

"hasOpenThreats": false

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{

"position": {

"x": -897,

"y": -860

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"size": {

"width": 80,

"height": 80

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"attrs": {

"text": {

"text": "App mobile"

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"body": {

"stroke": "#333333",

"strokeWidth": 1,

"strokeDasharray": null

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},

"shape": "process",

"zIndex": 17,

"id": "ff6b4316-bba5-4fa3-975a-f8475bb08d18",

"data": {

"type": "tm.Process",

"name": "App mobile",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"privilegeLevel": "",

"hasOpenThreats": false,

"threats": []

}

},

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"x": -564,

"y": -850

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"size": {

"width": 60,

"height": 60

},

"attrs": {

"text": {

"text": "API"

},

"body": {

"stroke": "#333333",

"strokeWidth": 1,

"strokeDasharray": null

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"shape": "process",

"zIndex": 18,

"id": "470623a5-093b-4c2c-8db8-f344fdff805b",

"data": {

"type": "tm.Process",

"name": "API",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"privilegeLevel": "",

"hasOpenThreats": false,

"threats": []

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{

"position": {

"x": -564,

"y": -662

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"size": {

"width": 80,

"height": 80

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"attrs": {

"text": {

"text": "Painel web"

},

"body": {

"stroke": "red",

"strokeWidth": 3,

"strokeDasharray": null

}

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"shape": "process",

"zIndex": 19,

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"data": {

"type": "tm.Process",

"name": "Painel web",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"privilegeLevel": "",

"hasOpenThreats": true,

"threats": [

{

"id": "81dfd75e-9558-4638-84ba-0df191ea86c8",

"status": "Open",

"severity": "",

"title": "Manipulação indevida de dados",

"type": "Elevation of privilege",

"description": "Caso obtenha acesso ao sistema, um atacante poderia manipular dados de forma indevida ou comprometer o sistema",

"mitigation": "",

"modelType": "STRIDE"

}

]

}

},

{

"position": {

"x": -1020,

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"size": {

"width": 112.5,

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"attrs": {

"text": {

"text": "Usuário comum"

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"body": {

"stroke": "red",

"strokeWidth": 3,

"strokeDasharray": null

}

},

"shape": "actor",

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"data": {

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"name": "Usuário comum",

"description": "",

"outOfScope": false,

"reasonOutOfScope": "",

"providesAuthentication": false,

"hasOpenThreats": true,

"threats": [

{

"id": "fbdaf1ea-e4be-40a5-ac5d-803a77c2c16c",

"status": "Open",

"severity": "",

"title": "Acesso ilegal",

"type": "Spoofing",

"description": "Atacante se passar por um usuário dessa categoria e abusar do sistema.",

"mitigation": "Usar MFAuth",

"modelType": "STRIDE"

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]

}

},

{

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"x": -1030,

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"size": {

"width": 112.5,

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"attrs": {

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"text": "acessa"

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"type": "tm.Text",

"name": "acessa",

"hasOpenThreats": false

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"x": -756,

"y": -529

},

"size": {

"width": 112.5,

"height": 60

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"attrs": {

"text": {

"text": "Administrador"

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"body": {

"stroke": "red",

"strokeWidth": 3,

"strokeDasharray": null

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"shape": "actor",

"zIndex": 22,

"id": "c254848b-41a2-486b-b9de-26c5b985000b",

"data": {

"type": "tm.Actor",

"name": "Administrador",

"description": "Lê, altera, introduz e retira dados (ou parâmetros chave) da plataforma",

"outOfScope": false,

"reasonOutOfScope": "",

"providesAuthentication": false,

"hasOpenThreats": true,

"threats": [

{

"id": "888e623c-f887-461c-b4b6-afeebd282b58",

"status": "Open",

"severity": "",

"title": "Acesso ilegal",

"type": "Spoofing",

"description": "Um atacante poderia tentar se passar por um usuário administrador e acessar o sistema.",

"mitigation": "Usar multi-factor authentication",

"modelType": "STRIDE"

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]

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},

{

"position": {

"x": -580,

"y": -529

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"text": {

"text": "Profissional\nde\nEpidemiologia"

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"body": {

"stroke": "red",

"strokeWidth": 3,

"strokeDasharray": null

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"data": {

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"name": "Profissional\nde\nEpidemiologia",

"description": "Consomem e analisam dados gerais da plataforma",

"outOfScope": false,

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"threats": [

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"id": "436beb81-8afd-4296-bab2-7f17b3bf028c",

"status": "Open",

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"title": "Acesso ilegal",

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"description": "Atacante se passar por um usuário dessa categoria e abusar do sistema.",

"mitigation": "Usar MFAuth",

"modelType": "STRIDE"

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]

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"x": -407,

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"width": 112.5,

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"text": {

"text": "Instituições"

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"stroke": "red",

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"shape": "actor",

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"data": {

"type": "tm.Actor",

"name": "Instituições",

"description": "Instituições que aderem ao app consomem e analisam dados relacionados a ela",

"outOfScope": false,

"reasonOutOfScope": "",

"providesAuthentication": false,

"hasOpenThreats": true,

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"id": "50a33cb5-e751-48c3-b683-7a3ab6536e4a",

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"mitigation": "Usar MFAuth",

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