Fido 服务器端详细设计

一. 界面设计

1. username 与 public-key对应界面

通过表格的形式向用户展现数据库中username与用户公钥之间的对应关系。

2. 认证设备元数据展示界面

通过表格的形式展现数据库中存储的用户设备元数据

3. Policy展示界面

通过表格的形式向用户展现数据库中存储的不同RP，进行身份绑定和认证的元数据。

二. 数据库设计

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| username\_pubkey 数据表 | | | | | |
| 字段名 | up\_id | username | Public\_key | KeyID | extension |
| 数据类型 | int | varchar | text | varchar | varchar |
| 字段长度 | 11 | 30 |  | 100 | 100 |

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| RP policy 数据表 | | | | | | |
| 字段名 | p\_id | aaid | auth\_factor | key\_ Protect | attachment | Secure\_dis |
| 数据类型 | int | int | Unsign big int | Unsign big int | Unsign big int | Unsign big int |
| 字段长度 | 11 | 50 | 1 | 1 | 1 | 1 |

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| Authentication algorithm 数据表 | | |
| 字段名 | al\_id | supportedAuthAlgs |
| 数据类型 | int | Unsign bit int |
| 字段长度 | 11 | 1 |

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| Supported scheme 数据表 | | |
| 字段名 | ss\_id | supportedSchemes |
| 数据类型 | int | Unsign bit int |
| 字段长度 | 11 | 1 |

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| Policy – algorithm 关系表 | | | |
| 字段名 | pa\_id | p\_id | al\_id |
| 数据类型 | int | int | int |
| 字段长度 | 11 | 11 | 11 |

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| Policy – scheme 关系表 | | | |
| 字段名 | ps\_id | p\_id | ss\_id |
| 数据类型 | int | int | int |
| 字段长度 | 11 | 11 | 11 |

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| 认证设备元数据 数据表 (1) | | | | | |
| 字段名 | Am\_id | aaid | certificate | description | Veri\_Methods |
| 数据类型 | int | int | text | varchar | Unsign big int |
| 字段长度 | 11 | 50 |  | 200 | 1 |

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| 认证设备元数据 数据表 (2) | | | | | |
| 字段名 | Attach\_ type | Key\_ Protect | Secure\_dis | dis\_content\_type | if\_second |
| 数据类型 | Unsign big int | Unsign big int | Unsign big int | varchar | Bool |
| 字段长度 | 11 | 50 | 1 | 200 | 1 |

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| 认证设备元数据 数据表 (3) | | | | | |
| 字段名 | logo | scheme | Auth-alg | mini\_version | max\_version |
| 数据类型 | varchar | varchar | Unsign big int | varchar | varchar |
| 字段长度 | 40 | 50 | 1 | 5 | 5 |