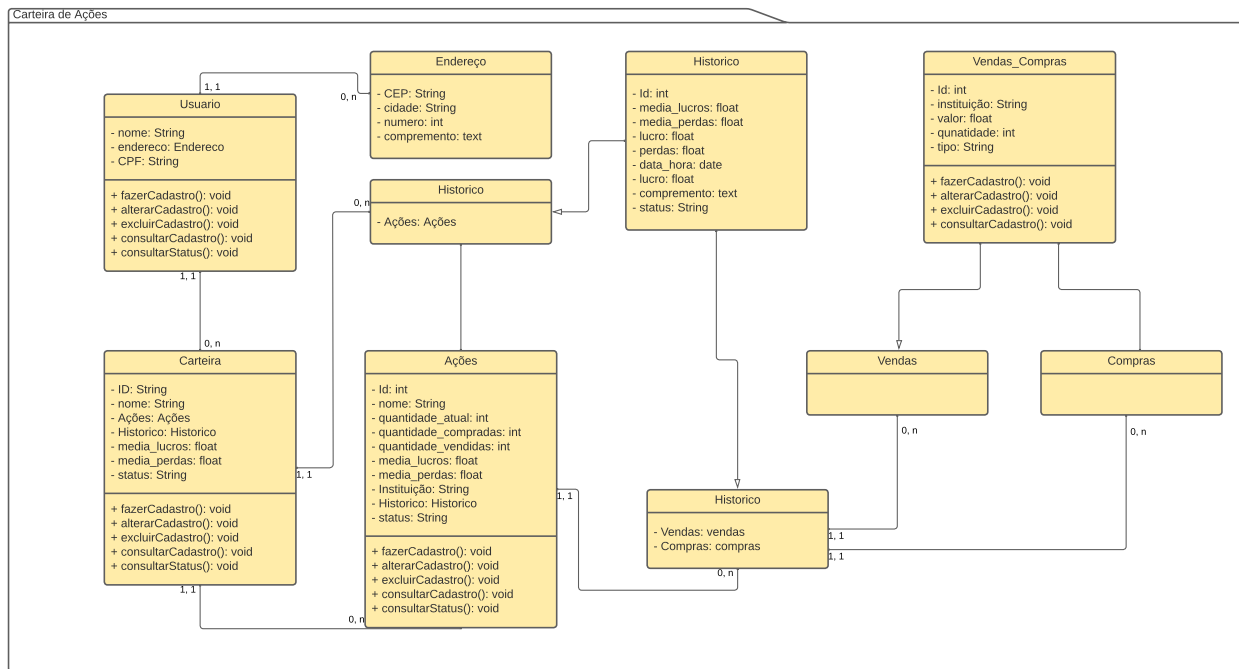
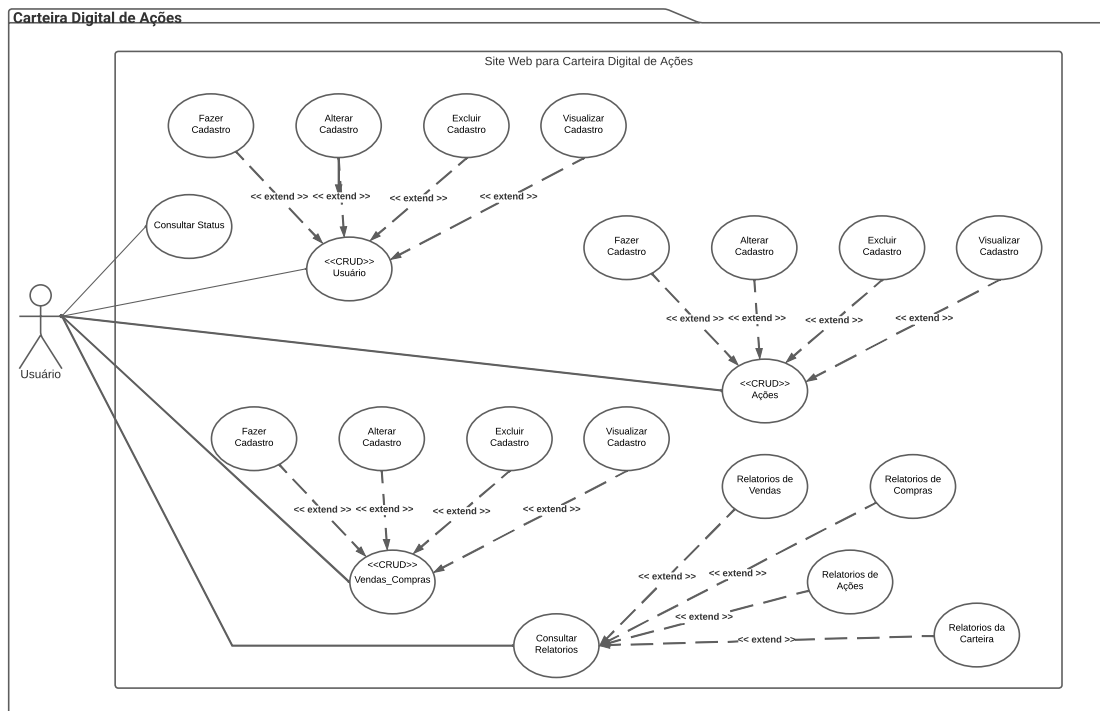


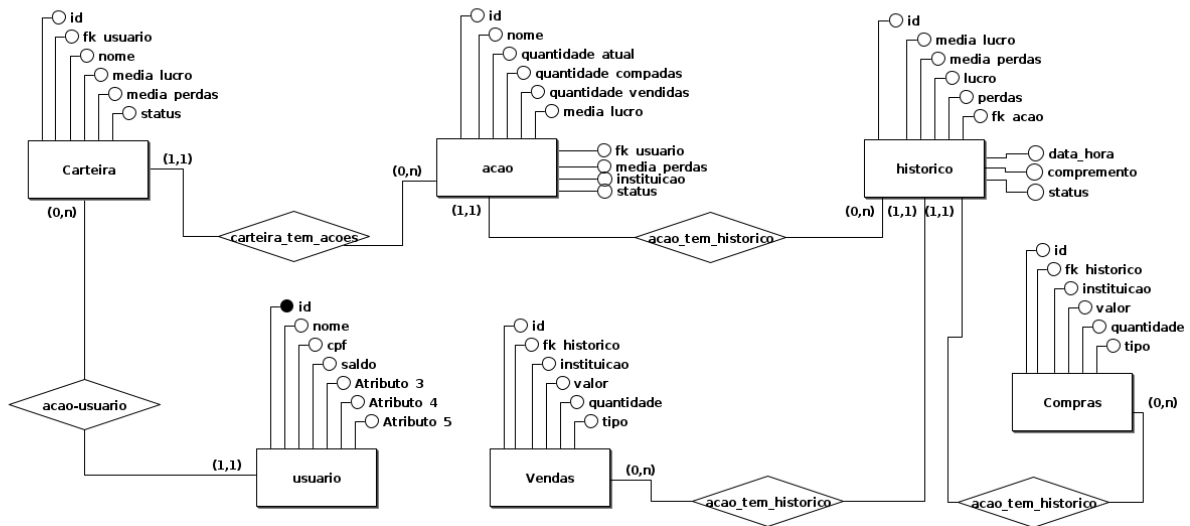
Diagrama de Classes



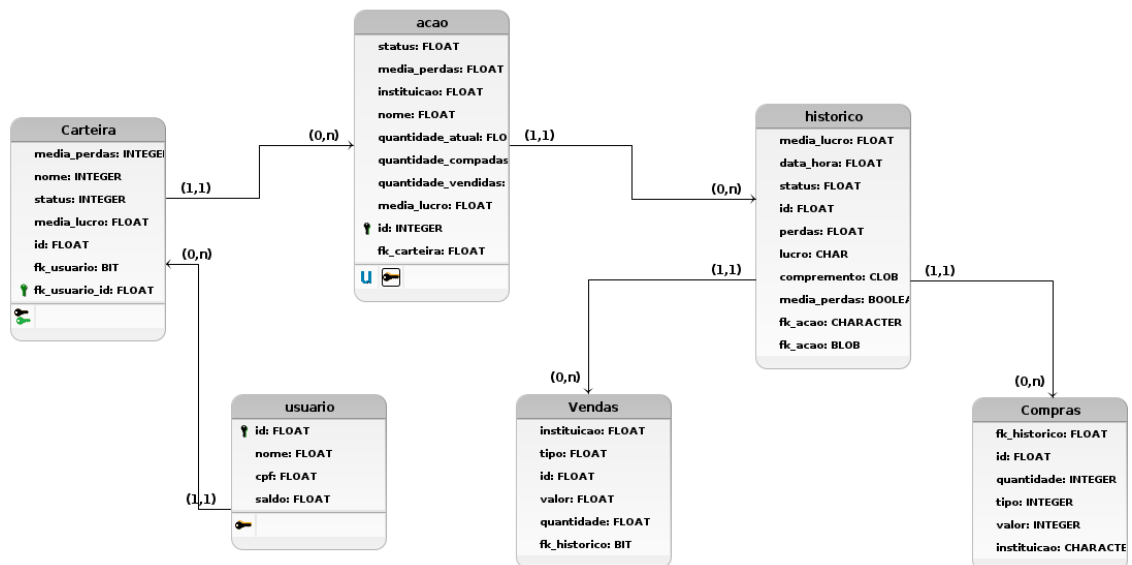
Caso de Uso



Modelo Conceitual



Modelo Lógico



Modelo Físico

```
/* Lógico-Carteira Digital de Ações: */
```

```
/*!40100 COLLATE 'utf8mb4_unicode_ci' */
```

```
CREATE DATABASE `carteira_acao` CHARACTER SET utf8mb4 COLLATE  
'utf8mb4_unicode_ci';
```

```
CREATE TABLE acao (  
    id INTEGER PRIMARY KEY,  
    status VARCHAR(15),  
    nome VARCHAR(45),  
    media_perdas FLOAT,  
    instituicao VARCHAR(45),  
    quantidade_atual INTEGER,  
    quantidade_compadas INTEGER,  
    quantidade_vendidas INTEGER,  
    media_lucro FLOAT,  
    fk_carteira INTEGER  
);
```

```
CREATE TABLE usuario (  
    id INTEGER PRIMARY KEY,  
    nome VARCHAR(45),  
    cpf VARCHAR(15),  
    saldo FLOAT  
);
```

```
CREATE TABLE historico (  
    id INTEGER PRIMARY KEY,  
    media_lucro FLOAT,  
    data_hora DATE,  
    status VARCHAR(15),  
    perdas FLOAT,  
    lucro FLOAT,  
    complemento TEXT,  
    media_perdas FLOAT,  
    fk_acao INTEGER  
);
```

```
CREATE TABLE carteira (  
    id INTEGER PRIMARY KEY,  
    nome VARCHAR(45),  
    status VARCHAR(15),  
    media_lucro FLOAT,  
    media_perdas FLOAT,  
    fk_usuario INTEGER  
);
```

```
CREATE TABLE venda (  
    id INTEGER PRIMARY KEY,  
    instituicao VARCHAR(45),  
    tipo VARCHAR(15),  
    valor FLOAT,  
    quantidade INTEGER,  
    fk_historico INTEGER  
);
```

```
CREATE TABLE compra (  
    id INTEGER PRIMARY KEY,  
    instituicao VARCHAR(45),  
    tipo VARCHAR(15),  
    valor FLOAT,  
    quantidade INTEGER,  
    fk_historico INTEGER  
);
```

```
ALTER TABLE carteira ADD CONSTRAINT FK_carteira  
    FOREIGN KEY (fk_usuario)  
    REFERENCES usuario (id)  
    ON DELETE CASCADE;
```

```
ALTER TABLE acao ADD CONSTRAINT FK_acao  
    FOREIGN KEY (fk_carteira)  
    REFERENCES carteira (id)  
    ON DELETE CASCADE;
```

```
ALTER TABLE historico ADD CONSTRAINT FK_historico  
    FOREIGN KEY (fk_acao)  
    REFERENCES acao (id)  
    ON DELETE CASCADE;
```

```
ALTER TABLE venda ADD CONSTRAINT FK_venda  
    FOREIGN KEY (fk_historico)  
    REFERENCES historico (id)  
    ON DELETE CASCADE;
```

```
ALTER TABLE compra ADD CONSTRAINT FK_compra  
    FOREIGN KEY (fk_historico)  
    REFERENCES historico (id)  
    ON DELETE CASCADE;
```