Confidential Customized for Lorem Ipsum LLC Version 1.0

Solana Notes in Rust.

Core functionality only.



Confidential Customized for **Lorem Ipsum LLC** Version 10

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Create and Delete Note Function.

```
▶ Run Test | Debug
declare_id!("62wpCWKSX87fLgkmeesnKspYctLnSvAzcfSjUgt6wtXe");
#[program]
pub mod notes {
    use super::*;
    pub fn create_note(ctx: Context<CreateNote>, content: String) -> Result<()> {
        let note: &mut Account<'_, Note> = &mut ctx.accounts.note;
        let user: &Signer<'_> = &ctx.accounts.user;
        note content = content;
        note user = user key();
        0k(())
    pub fn delete_note(_ctx: Context<DeleteNote>) -> Result<()> {
        0k(())
```

Create Note and Delete.

```
#[derive(Accounts)]
5 implementations
pub struct CreateNote<'info> {
    #[account{
        init,
        payer = user,
        space = 2000
    pub note: Account<'info, Note>,
    #[account(mut)]
    pub user: Signer<'info>,
    pub system_program: Program<'info, System>,
```

```
#[derive(Accounts)]
5 implementations
pub struct DeleteNote<'info> {
    #[account{
        mut,
        has_one = user,
        close = user
    pub note: Account<'info, Note>,
    #[account(mut)]
    pub user: Signer<'info>,
```

Test Create Note.

```
it("can create a note!", async () => {
  await program. rpc.createNote("Hello, Encode Club Solana Bootcamp!", {
    accounts: {
      note: note.publicKey,
     user: provider.wallet.publicKey,
      systemProgram: anchor.web3.SystemProgram.programId,
    signers: [note],
  });
  let newNote = await program.account.note.fetch(note.publicKey);
  assert.strictEqual(newNote.content, "Hello, Encode Club Solana Bootcamp!");
  assert.strictEqual(
    newNote.user.toBase58(),
    provider.wallet.publicKey.toBase58()
```

Test Delete Note.

```
it("can delete a note!", async () => {
 await program.rpc.deleteNote({
   accounts: {
     note: note.publicKey,
     user: provider.wallet.publicKey,
  let delNote = await program.account.note.fetchNullable(note.publicKey);
 assert.strictEqual(delNote, null);
});
```

Test Results.

```
(base) vladtagunkov@Vlads-MacBook-Pro notes % anchor test
    Finished release [optimized] target(s) in 0.25s
    Finished `test` profile [unoptimized + debuginfo] target(s) in 0.25s
    Running unittests src/lib.rs (/Users/vladtagunkov/Vlad_Projects/Encode_Club/bootcamp_SOLANA/Homeworks/final_project/notes/target/debug/deps/notes-2e1d52f7243d5922
Found a 'test' script in the Anchor.toml. Running it as a test suite!
Running test suite: "/Users/vladtagunkov/Vlad_Projects/Encode_Club/bootcamp_SOLANA/Homeworks/final_project/notes/Anchor.toml"
yarn run v1.22.22
$ /Users/vladtagunkov/Vlad Projects/Encode Club/bootcamp SOLANA/Homeworks/final project/notes/node modules/.bin/ts-mocha -p ./tsconfig.json -t 1000000 'tests/**/*.ts'
  notes

✓ can create a note! (333ms)

✓ can delete a note! (461ms)

 2 passing (798ms)

★ Done in 2.62s.

(base) vladtagunkov@Vlads-MacBook-Pro notes %
```

Thank you.

