Capstone Projects:
- README
- Integration tests
  ↳ user stories

- Last: implementation

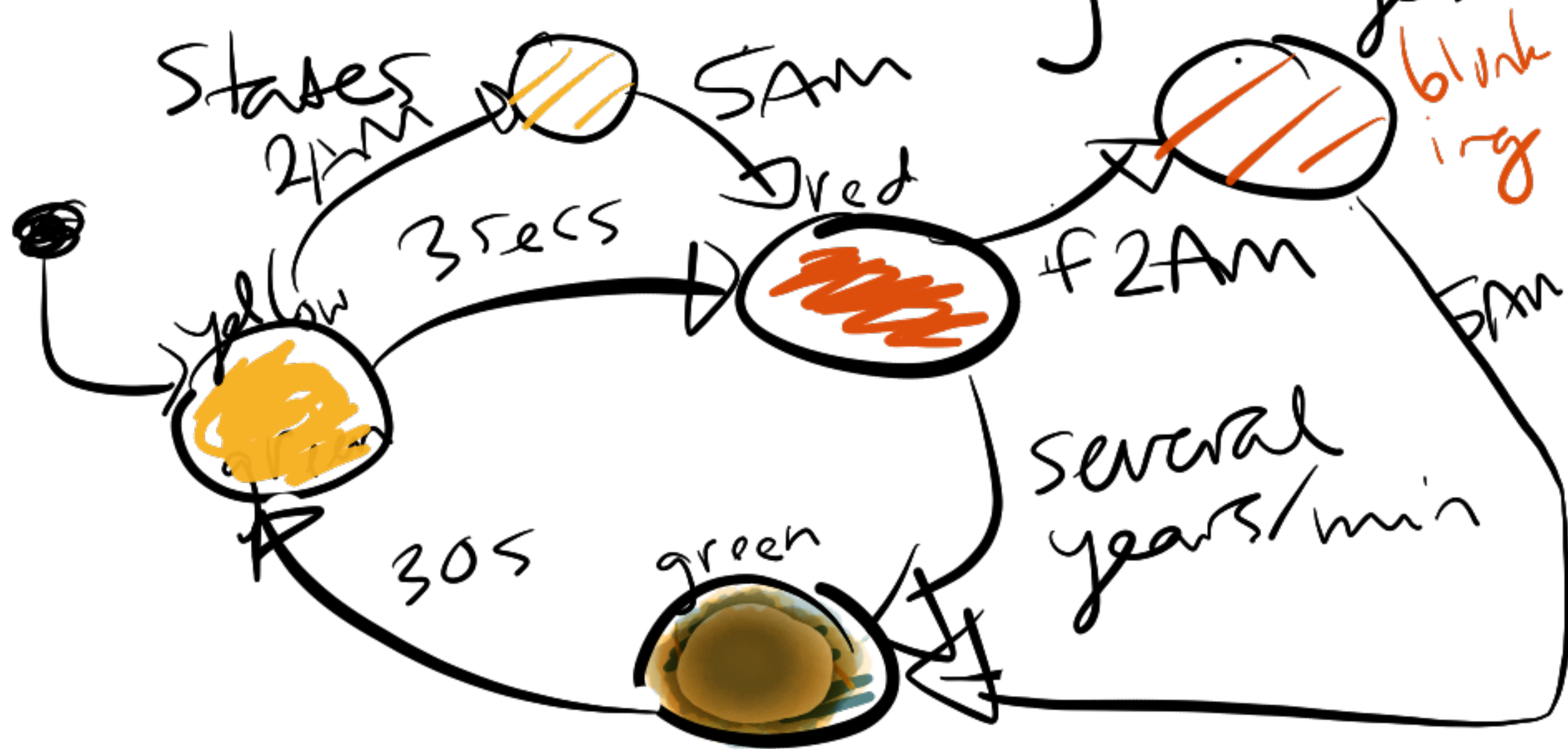# Readme

- Explain what it is
  & how to use it

2 — Project State → TODO 2b
3 — Features
— Known bugs
1 — Purpose
→ Demo link
— Authors
4 — Usage instr.
— Travis badge

State Machines (diagram)

— show how something changes states

2AM

5AM

blinking

3secs

yellow

red

if 2AM

5AM

30s

green

several years/min

$$50 + 70 = 120$$

operator

$$50 \quad 70 \quad + \qquad \Big\}\ \text{reverse polish}$$

xfoo — hungarian notation

User Stories:

As a _user_

In order to _acomplish a goal_

I want to _do something_

— Acceptance
— Criteria

As a personplanning an event

In order to find a Saturday
for my event
I want to look at a calendar
— should work for all
months this year

As a agilg person

In order to reminesee about
my birth

I want to look up the day
of the week I was born

— must work for any month
in past 100 years

As a history buff

. .   .   .

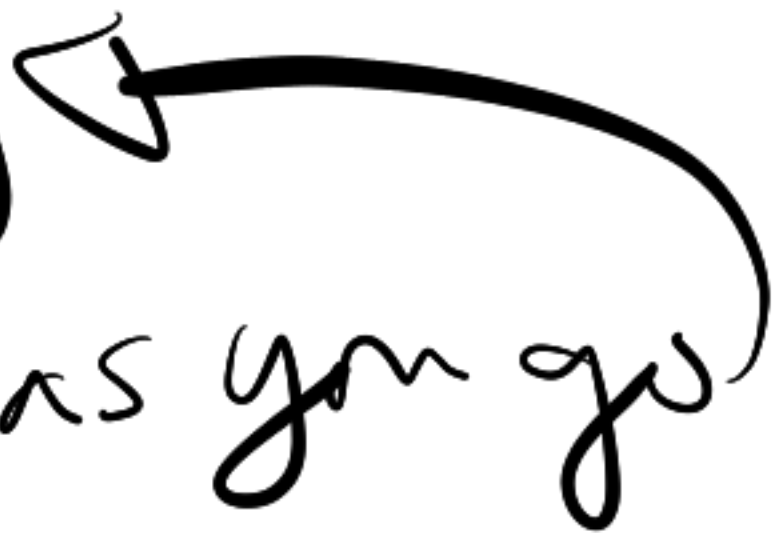.   .   .

— works for past
1000 years

1 user story

↓

n integration tests

↓

start implementing ⟵

↳ test (unit) as you go

```
┌─────────────────┐        ┌──────────────────────────────┐
│ Projects        │        │ TimeWorked          ← class  │
├─────────────────┤        ├──────────────────────────────┤
│ name            │◁───────│ Project               ← attr │
│                 │        │ start time              of   │
│                 │        │ stop time           instance │
├─────────────────┤        ├──────────────────────────────┤
│ ( prettyname )  │        │ ( duration )        ← method  │
│ ( total time    │        │                              │
│    worked )     │        │                              │
└─────────────────┘        └──────────────────────────────┘
```

UML/ERD diagram

\> tine new project NSS

\> tine list projects

⇒ 1. NSS

2. Other project

⎰ interactions an actual user
⎱ would have w/ the program

UML - Unified Modeling Language

ERD - Entity-Relationship Diagram

Used when modeling databases

Linked List

first_item ⟶

add item

get item

size

Linked List Item

payload

next item . ⟲

last ?