```
                    ┌──────────┐                    ┌──────────────┐
                    │║        ║│                    │ Agenda App   │
                    │║  Init  ║│                    │              │
                    │║        ║│                    │              │
                    └────┬─────┘                    └──────────────┘
                         │
                         ▼
                       ( A )──────────────────────────────┐
              ┌──────────┘                                 │
              │                                            │
              ▼                                            ▼
            ( B )◄──────────────────┐            ┌──────────────────┐
              │                     │       No   │║  Reminders    ║│
              ▼                     │            │║  Thread       ║│
      ┌───────────────┐            │            └────────┬─────────┘
      │ Generate FSM  │            │                     │
      │ Event         │            │                     ▼
      └───────┬───────┘            │              ╱ Reminder is ╲
              │                    │             ╱   needed ?    ╲
              ▼                    │             ╲               ╱
      ┌───────────────┐            │              ╲             ╱
      │ Screen FSM    │            │                  │  Yes
      │ event handler │            │                  │
      └───────┬───────┘            │                  │
      ┌───┬───┼───┬───┐            │                  │
      ▼   ▼   ▼   ▼   ▼            └──────────────────┘

  ┌────┐┌────┐┌────┐┌────┐┌────────┐
  │║ ║││║ ║││║ ║││║ ║││ Next    │
  │List││Sear││add ││Remi││ event  │
  │even││ch  ││new ││nder││ screen │
  │ts  ││even││even││s   │└────┬───┘
  │scre││t by││t   ││Scre│     │
  │en  ││time││scre││en  │     ▼
  │║ ║││scre││en  ││║ ║│  ╱ Eixt      ╲
  └─┬──┘│en  ││║ ║│└──┬─┘ ╲ program ? ╱
    │   └─┬──┘└─┬──┘   │    ╲         ╱
    │     │     │      │     No│  yes
    └──┬──┴──┐  └──┬───┘       │   │
       ▼     ▼     ▼           │   ▼
     ( C )◄────────────────────┘ ┌──────┐
       │                         │ Exit │
       ▼                         └──────┘
   ╱ User    ╲
   ╲ input ? ╱
      │ Yes
```

Yes

```
                                    ┌─────────────────┐         ┌─────────────────┐
                                    │                 │         │ Agenda App/Init │
                                    │  Open Database  │         │                 │
                                    │                 │         └─────────────────┘
                                    └────────┬────────┘
                                             │
                                             ▼
                                    ╭─────────────────╮
                                    │  read user info │
                                    ╰────────┬────────╯
                                             │
                                             ▼
  ◇ Enter info or skip ?    Ask the user for    ◇ user info present ?
```

Open Database

read user info

Ask the user for his info

No

user info present ?

Enter info or skip ?

Skip

Enter info

Yes

Save User info in DB

init FSM

A

Agenda App/Init

```
                                    ┌──────────────────────┐
                                    │ Agenda               │
                                    │ App/Reminders        │
                                    │ Thread               │
                                    └──────────────────────┘

        ┌──────────────────┐
        │ Get Current time │
        │ and date         │
        └──────────────────┘
                │
        ╭──────────────────╮
        │ Get next         │
        │ event            │
        ╰──────────────────╯
                │
        ┌──────────────────┐
        │ extract next event│
        │ time and date and │
        │ compare to currnt │
        │ time              │
        └──────────────────┘
                │
          ◇ reminder is due? ◇
                │
              Yes
                │
               (B)
                │
        ┌──────────────────┐
        │ Generate FSM     │
        │ event to activate │
        │ Reminders state  │
        └──────────────────┘
                │
        ┌──────────────────┐
        │ Update Next event│
        │ screen if needed │
        └──────────────────┘
                │
        ┌──────────────────┐
        │ sleep for 1 sec  │
        └──────────────────┘
```
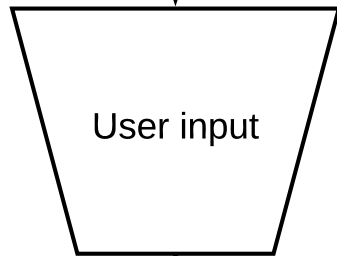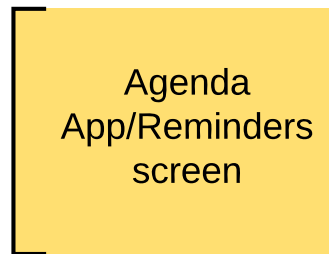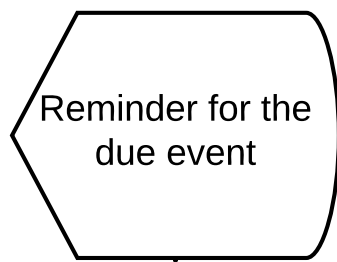
Read from
DB all events
for current
date

Agenda App/IList
events

events available ?

No

No events
available.. empty
list

Yes

List of events

C

User Input Time

Agenda App/Search event by Time

Search in DB for the enterd time

event available ? —No→ no events available at that time

Yes

show event to the user

event state Done —No→ Wait for 3 Sec

Yes

Ask the user if this event done or not

user finished the event ? —No→

Yes

Update event state in DB

Event state updated

C

```
                                        ┌─────────────────┐
   ⬡ Reminder for the                   │  Agenda         │
     due event                          │  App/Reminders  │
          │                             │  screen         │
          ▼                             └─────────────────┘
   ╱  User input  ╲
  ╱                ╲
          │
          ▼
        ◇ Dismiss\Back ◇───────────────┐
          │                            │
       Dismiss                        Back
          │                            │
          ▼                            │
   ▭ Update the                        │
     event state in                    │
     DB                                │
          │                            │
          ▼                            │
         (C) ◀───────────────────────────┘
```