

# American Heart Screening Management System

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## Milestone 3 Evaluation

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### Led By:

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### Sponsored By:

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### Client:

**Evan Ernst**, CEO - Who We Play For

**Klynton Holmes**, Tech Advisor - Who We Play For

## Progress of Current Milestone

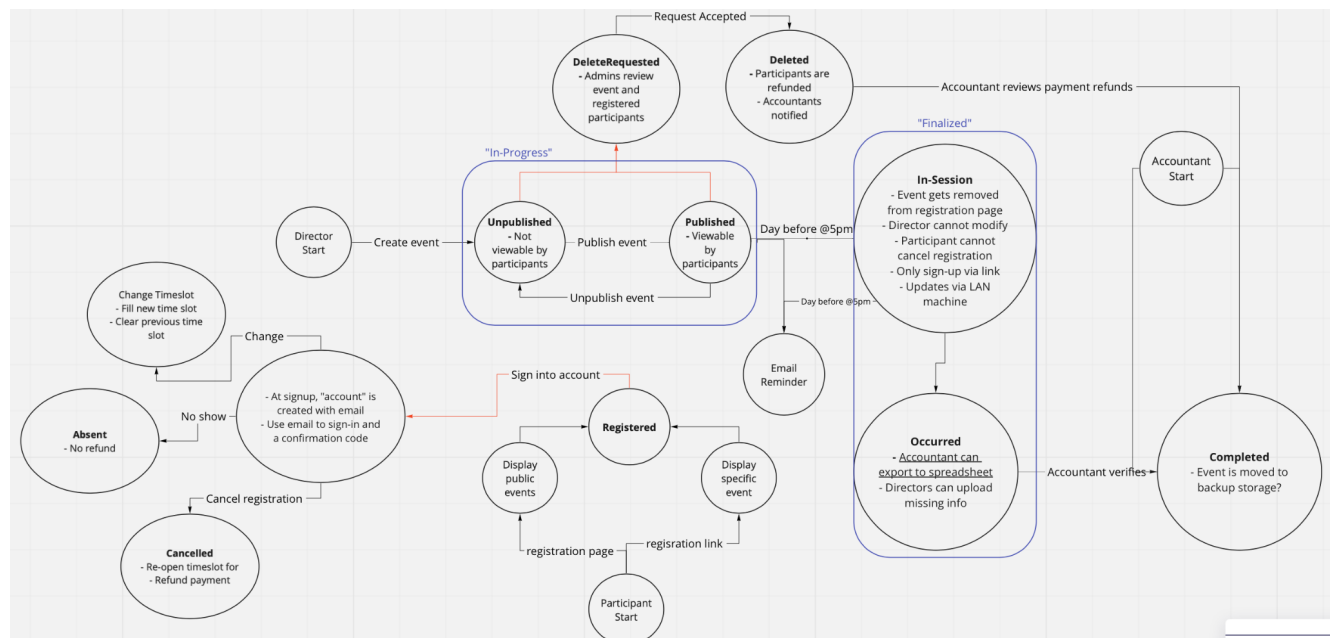
| Task   | Completion % | Carlo | Chris | Drew | John | Noah | TODO   |
|--|--------------|-------|-------|------|------|------|--|
| 1. Dedicated LAN machine for onsite registration | 60%          | 50%   | 50%   | 0%   | 0%   | 0%   | Design and implement the system of creating the LAN  |
| 2. Redesign event state flow                     | 90%          | 20%   | 20%   | 20%  | 20%  | 20%  | State diagram may change slightly as new features are added  |
| 3. Implement new event state flow                | 60%          | 0%    | 0%    | 100% | 0%   | 0%   | Finish Implementation of automatic transition from InSession to Happening to Occured status<br><br>Update director UI for new states |
| 4. Fix private event bug                         | 100%         | 0%    | 0%    | 45%  | 45%  | 10%  |  |
| 5. Adjust functionality for registration links   | 85%          | 0%    | 0%    | 10%  | 45%  | 45%  | Find and fix reason promise that returns for link will not resolve<br><br>Implement the ability to pull up registration for a        |

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|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  | specific event<br>given the event's<br>registration link |
|--|--|--|--|--|--|--|--|

## Accomplishments

- Task 1:
  - Create a Local Access Network between the computers used during screenings to allow for the use of the same Excel spreadsheet.
  - Make that Excel spreadsheet a live document that displays the information of participants inserted into the DynamoDB database when they register for an event.
  - Automatically update the spreadsheet periodically during the time that the event is taking place.
- Task 2: Completely redrew the existing event state diagram
  - Held a discussion with the client where existing limitations were described and a new diagram was created with future queries in mind
  - Added future states for requesting deletion of an in-progress event and for the admin to approve deletion
  - Discussed possibility of adding a profile/account functionality for participants in future milestones to allow for changing appointment times, cancelling registrations, being marked for not showing to an event, and view screening results
  - New diagram:



- Task 3: Began implementation of the new, basic event states from the diagram above
  - Implemented/tested *Unpublished*, *Published*, and *In-Session* events, and the transitions between them
  - Previous statuses for **InProgress** and **Finalized** events were made abstractions, and previous substatus were promoted/changed to simplify event states
  - Refactored the existing database queries to use the new states and remove use of substatus
  - Began implementing automatic transition from *InSession* to *Happening* to *Occured* after an event's start and end time has passed respectively
    - Made use of AWS step functions, which utilize a state machine to manage the transition between states with automated functionality
- Task 4: Tracked down and fixed bug where private events were becoming public after being created by the director
  - Source: the UI records when a director selects the "Private" option when created an event, but the backend stores event types in all lowercase
  - When creating an event, the backend checks for a "private" type in the event object, which could never be true
  - Updated all dependencies to use the correct string for comparisons and verified functionality works as expected

- Task 5: Updating the button to get a registration link in various ways (both cosmetics and functionality)
  - Update frontend button and make changes to the functionality of the button
  - Added registration to all events, not just private events
  - Updated names of functions/variables in back/frontend to better represent their new functionality.

## Contributions

### Carlo

- Partook in the redesign of the existing state diagram to include new features that are planned on being added
- Found and tested multiple methods to make the live Excel spreadsheet
  - Selected best method to implement
- Visited an in-person screening event and had discussions with directors/volunteers to learn more about the system they use right now and how it works in order to better tailor our system
- Currently researching ways to partition a local disk and allow nearby computers to access that partition in order to create the local network

### Chris

- Partook in the redesign of the existing state diagram to include new features that are planned on being added
- Optimized code from the verbiage task to reduce redundancy
- Found and tested multiple methods to make a live Excel spreadsheet by transferring samples of data from AWS directly to .csv and .xlsx files

### Drew

- Led the redesign of the existing event state diagram to take into consideration future features
  - Divided the implementation of new diagram into smaller subtasks to be worked by team members
- Managed team Kanban board: creating tasks/epics, writing descriptions, and coordinating with client
- Tracked down and fixed a bug involving private events with John and Noah
- Assisted Noah and John with registration link functionality as needed

## John

- Partook in the redesign of the existing state diagram to include new features that are planned on being added
- Allowed for every event to include a registration link, not only private ones
- Redesigned button for getting private link and changed functionality of the button
- Added some backend functionality for links to events to pull up the specified event
- Fixed a bug relating to the director's backend for the event registration link button and helped track down a bug involving private events
- Discussed potential ways to redesign our database with Drew to make future tasks easier to implement and keep current functionality

## Noah

- Partook in the redesign of the existing state diagram to include new features that are planned on being added
- Allowed for every event to include a registration link, not only private ones
  - Renamed every instance of backend function to get event link to be more clear (*getPrivateLink* to *getRegistrationLink*)
- Edited the main Participant UI to only include events open to schools/communities and to hide private events.
- Tested and added frontend functionality for unique links only pulling up the specified event

## Plan for Milestone 4

### Task Matrix (In order of priority)

| Task  | Carlo | Chris | Drew | John | Noah |
|---|-------|-------|------|------|------|
| 1. Continue implementation of LAN machine for onsite registration | 50%   | 50%   | 0%   | 0%   | 0%   |
| 2. Finish implementation  | 0%    | 0%    | 80%  | 10%  | 10%  |

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| on of new event states                              |     |     |     |     |     |
| 3. Update UI to match new state diagram             | 0%  | 0%  | 0%  | 50% | 50% |
| 4. Begin implementation of Accountant Functionality | 20% | 20% | 20% | 20% | 20% |

## Discussion of Upcoming Tasks

- Task 1: Continue implementation of LAN machine for onsite registration
  - Design and implement the system of connecting multiple computers locally to one live Excel spreadsheet
  - Develop in coordination with new event states
    - Live spreadsheet updates will occur during **Happening** status of an event (between start and end times)
- Task 2: Finish implementation of new event states
  - Finish implementing automatic transition from **InSession** to **Happening** to **Occured** status
  - Update/test existing queries to use new statuses
- Task 3: Update UI to match new state diagram
  - Replace the current **Completed Events** section with **Finalized Events** section, containing *only* **InSession**, **Happening**, and **Occured** events in the table
  - Should have a **Status** column displaying either **InSession**, **Happening**, or **Occured** for each event
  - For existing **InProgress Events** table and new **Finalized Events** table:
    - Should be ordered from oldest event to newest event (top to bottom)
    - Should "load" no more than 20 events in table at a time
    - Should have a "Get More" more button below the table to query for older (up to 20) events, extending the table to include the queried events

- Move the current contents of the **Completed Events** section to its own tab, to be used *only* for events with a **Completed** status
- Task 4:
  - Start implementing search functionality for an accountant, allowing filters:
    - By date/date range
    - By participant
    - By event
  - Start implementing exportation of payments to spreadsheet

## Meeting Dates

### Client

| Date  | Discussion Points   |
|---|---|
| Recurring meetings<br>MWF<br>11:45am-12:00pm &<br>4:30pm - 5:00pm | <ul style="list-style-type: none"><li>● What we did since last meeting</li><li>● What we are working on until next meeting</li><li>● Any blockers/impediments</li></ul> |
| November 5th, 2021  | <ul style="list-style-type: none"><li>● Redesign of event state diagram</li></ul>   |

### Faculty Advisor

| Date                | Discussion Points   |
|---------------------|---|
| November 26th, 2021 | <ul style="list-style-type: none"><li>● Presented Milestone 3 Progress</li><li>● Requested feedback</li></ul> |

## Feedback for Milestone 3

### Client

- Continue to ask more technical and/or business questions

### Faculty Advisor

- Task 1:



- Task 2:
- Task 3:
- Task 4:
- Task 5:
- Task 6:
- Task 7:
- Task 8:
- Task 9:

Faculty Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Evaluation by Faculty Advisor

- Faculty Advisor: detach and return this page to Dr. Chan (HC 214) or email the scores to [pkc@cs.fit.edu](mailto:pkc@cs.fit.edu)
- Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

|       |   |   |   |   |   |   |     |   |     |   |     |   |     |   |     |    |
|-------|---|---|---|---|---|---|-----|---|-----|---|-----|---|-----|---|-----|----|
| Carlo | 0 | 1 | 2 | 3 | 4 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| Chris | 0 | 1 | 2 | 3 | 4 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| Drew  | 0 | 1 | 2 | 3 | 4 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| John  | 0 | 1 | 2 | 3 | 4 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |
| Noah  | 0 | 1 | 2 | 3 | 4 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 9.5 | 10 |

Faculty Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_