horizontal line

XMA CMS

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# OVERVIEW

The Software Architecture Document (SAD) provides a comprehensive architectural overview of the Xtreme Martial Arts (XMA) Content Management System (XMA-CMS) architected by Jeff Ariz and Walt Kilar, to be developed by a TBD developer.

# GOALS

1. (Threshold) Define a viable software CMS product for XMA World Headquarters (XMA HQ)
2. (Threshold) Obtain approval from XMA to proceed with third-party development of the product
3. (Threshold) Deploy the product as limited release at XMA HQ
4. (Threshold) Refine the product for official release to customers of XMA HQ and limited, vertical markets
5. (Objective) Expand customer base to multiple locations and horizontal markets

# CONSTRAINTS

1. The product shall meet required interface specifications of existing XMA HQ information technology (IT) platforms.
2. XMA HQ retains first right of refusal on further development.
3. The Developers reserve the right to claim intellectual property on the product.

# TERMS AND REFERENCES

Customer Xtreme Martial Arts Headquarters

Developers Jeff Arriz and Walt Kilar

Product XMA CMS

# SOFTWARE ARCHITECTURE

## Use Cases

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### Customer Use Case

The Customer will be authorized access to the following modules:

1. View Progress: the Customer shall be authorized to view the progress of the student in terms of number of required classes, and successful completion of established milestones.
2. Input Goals: the Customer shall be authorized to communicate with the instructor on bilaterally agreed upon goals for the current promotion cycle.
3. Purchase Equipment: the Customer shall be authorized to view the required equipment for the current promotion cycle and place orders for deficient or unserviceable equipment with the Program Director.
   1. Optional: the Customer may request consignment of equipment that is serviceable, but no longer authorized to use due to changes in age, size, or rank
4. Register For Class: the Customer shall be authorized to reserve seats in authorized classes
   1. Optional: the Customer may request private lessons based on recommendation from the Instructor in order to achieve required level of proficiency stated in Goals or Testing Requirements.
   2. Optional: the Customer may communicate changes in attendance with the Instructor and Program Director

### Instructor Use Case

The Instructor will be authorized access to the following modules:

1. View Progress: the Instructor shall be authorized to document the progress of the student in terms of number of required classes, and successful completion of established milestones.
2. Input Goals: the Instructor shall be authorized to communicate with the Customer on bilaterally agreed upon goals for the current promotion cycle
3. Purchase Equipment: the Instructor shall be authorized to establish and list required equipment for the current promotion cycle.
   1. Optional: the Instructor may alert the Customer that items are no longer authorized to use due to changes in age, size, or rank
   2. Optional: the Instructor may alert the Customer that items are no longer serviceable
4. Register For Class: the Instructor shall be authorized to limit class size or number of required Assistant Instructors
   1. Optional: the Instructor may recommend private lessons based on assessment of required level of proficiency stated in Goals or Testing Requirements.
   2. Optional: the Instructor may communicate changes in attendance with the Instructor and Program Director

### Program Director Use Case

The Program Director will be authorized access to the following modules:

1. View Progress: the Program Director shall be authorized to monitor the progress of the student in terms of number of required classes, and successful completion of established milestones.
2. Input Goals: the Program Director shall be authorized to monitor Customer goals and Instructor assessments of progress
3. Purchase Equipment: the Program Director shall be authorized to list required equipment for the current promotion cycle.
   1. Optional: the Program Director may alert the Customer to special deals on equipment
   2. Optional: the Program Director may suggest recommended purchases to the Customer
4. Register For Class: the Program Director shall be authorized to monitor class size or manage schedules for Assistant Instructors
   1. The Program Director may schedule private lessons based on assessment of required level of proficiency stated in Goals or Testing Requirements.
   2. Optional: the Program Director may communicate schedule concerns with the Customer

## Requirements

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