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<Revision History>

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| Version | Date | Description | Author |
| Inception Draft | 04/28/15 | third draft for Running Project by the Turing Eagles | Matt Kuhn |

<Introduction>

We would like to create a web app that uses a MySQL database to store race results of local road races. People will be able to register their own accounts on this web app, then register for races themselves. The races will be created by race organizers, who must also have an account to create such races. It will be a self-sustaining race-recording initiative by those who are performing the races themselves.

<Positioning>

<Problem Statement>

Existing websites, such as milesplit.com, do not record the results of local races. Their website can be tricky to navigate within, too. Other sites, like runningtime.net, have such records, but offer no easy way to navigate them. There does not currently exist a website that offers results of local races in a format that is easy to navigate and search. As well, the data in these sites is not well formatted. The record for who registered for what races is split across several websites and not in one centralized location. In our web app, though, users will register for races right in our web app, providing a centralized location for all race registrations. Then, the organizers of races will have an easier time filling out the results for their races since they will have a comprehensive list of all the racers who registered for their race right in front of them.

<Product Position Statement>

We want to create a web app that hosts a database that stores race results from local races of the Cincinnati area, then displays query results to users who query that database. Our system is for anyone from the casual runner to the competitive runner. Anyone who might be interested in race results of themselves or someone they know who competed in a road race in the Cincinnati area. It could also service high school and collegiate coaches who are looking for yet-undiscovered, talented runners whom they may want to recruit to join their team.

<Stakeholder Descriptions>

<Market Demographics>

The running demographic isn’t limited to an age group or sex. This will be for anyone who is a runner themselves, or knows a runner, living in the Cincinnati area.

<Non-user Summary>

We will construct a server to host our database. We will also need a computer to host this server. For now, the best option is to just use a local server and use one of our own computers. The server will be hosted via the software WAMP, which uses a MySQL database. The database will store a few tables, the more important ones keeping the user credentials of those who have registered to use our web app, as well as other tables for storing the race results data. There will be cross-reference tables connecting the aforementioned tables so as to keep the data normalized. Other non-users include the computers that the market demographic will be using to access our web app. We will not calculate race pace averages nor season averages- those go beyond the scope of our goals.

<User Summary>

We will need a database administrator to upkeep the back-end of our web-app. This is NOT the only person who will be able to perform database operations on the race results tables. There will be a user with the authority to also edit the race results table. The DB admin will have the authority to remove accounts, but users can also delete themselves, too. We will need a web administrator to upkeep the front-end of our web-app for continued bug-fixing, updates, and other tasks for maintenance. Our user base will include those who create accounts on our app, as well as guests who come to our web page just to view race results without actually registering for races themselves. There will be varying degrees of these users: the lowest level can view race results and are racers themselves. The next higher level can submit race results, and are race organizers.

<High Level Goal>

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| --- | --- | --- | --- |
| Feature | Priority | Means | Additional comments |
| Host server. | high | Utilize WAMPserver web development environment | Can be found here: http://www.wampserver.com/en/ |
| Put database on server. | high | Utilize SQL DDL to create schema on WAMPserver. |  |
| Connect to server and perform operations on database as necessary. | high | Create a ServiceHandler class to make HTTPRequests to server. | Most likely use JDBC for this. |
| Update Race Results table | medium | Information to update database can be found from milesplit.com and runningtime.net |  |
| Have some form of use authentication and authorization to particular features. | high | Set up table in database for user-password matching system. | Use some form of encryption for storage. |
| Provide a simple interface for users to navigate and find desired race results | high | Create a user-friendly frontend. | Does anyone like HTML? |
| Have very quick responses from server to user on queries. | medium | Use stored procedures for some of these. |  |
| Allow for customizable queries for more in-depth race-result searches | medium | Allow users to search for particular values in queries |  |

<Cost and Pricing>

The cost of this project will be as expensive as the hours the development team put into designing and creating the web-app, as well as the time spent maintaining the backend and frontend of this web-app. We’re hoping to get discovered by a large producer, like EA or Activision, to help finance our project so that we can afford to follow through with this multi-million dollar budget plan.

<Installation>

Anyone seeking to use this web-app will only need access to a computer with an internet connection and a web browser of some kind. Then, they will only need to navigate to our web site, and go through the user authentication process to access our web app.

<Others>

This web app probably will not feature much in the way of competitive races, as there is probably some sort of legal protection on the data for those race results. If we would like to look into extending our dataset into competitive races, then we should add the cost of a lawyer to our cost and pricing. We have taken out a few features, but ultimately it is for the better of the web app. This will allow for a more focused user experience, and ultimately a more enjoyable one.