

# Project Synopsis : Race App (ENEOS Race Club)

## SUMMARY

Race App is a side project for a local racing club (non-profit organization). The primary purpose is to convert their existing excel-based race master-data/result worksheet to another incarnation wherein the following limitations are addressed

- Worksheets can only be effectively used by one person
- Linked worksheets are pain to deal with when a referenced worksheet is not copied along with the main
- Tracking down changes to master data is hard when presented with multiple working copies
- Cannot take advantage of Google docs since race circuit is mostly located in places where internet signal is hard to get by

## PROPOSED SOLUTION

Race admins should be able to work with any worksheet offline and then update the online database at a later time, all updates should be done thru worksheets to avoid persistence conflicts

A site should be created where race administrators can centrally store both master data and race activity related worksheets and perform the following tasks

- Users update the database by downloading their respective copy of worksheets, update it offline and then at a later time upload it to reflect their changes to the online database
- Worksheets should have a level of intelligence where it can deliver feedback to user over possible data conflicts like duplicate registration or duplicate assignment of a driver id.
- Every worksheet output should be self contained and should not have references to other worksheet

## PROCESS SEQUENCE

- User download a copy of master data which contains driver information, race class and team name.
- Once completed user then upload the modified worksheet to reflect the changes into the database.
- User create a round registration, download the corresponding worksheet and register drivers and the race categories which they want to compete on. A driver can compete in multiple category but should not be registered twice for the same category
- User is advised to upload the latest registration to the site to update the database.
- Prior to actual race day. Race admins should download the latest round registration. Race admins then can update the round worksheet during the race day at the race circuit.

Sidebar Notes:

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## PROCESS SEQUENCE (cont...)

- During or at the end of the race day, all race admins should submit their round worksheet to update the database
- Users can download anytime the round results but only certain users are allowed to update the round finals column into the online database
- Race performance worksheet which reflects the running tally of all rounds performance as a protected worksheet.
- A final Race Awarding worksheet should be generated at the end of the season from all the completed round results worksheet.

## COMPOSITION

- A front-end site with built-in user authentication and authorization is required for race admins to interact with.
- Primary backend site to support race data serialization and perform heavy lifting process like reading and writing to worksheets to support the front-end.
- An online database where the data is stored where automatic daily/weekly backups are done.
- A secondary backend dedicated to user auth and authentication will be used. Primary backend will have to use predefined rights derived from this backend
- Worksheets and worksheet templates will also be utilized such as
  - Master data
  - Round registration and results
  - Round finals
  - Race Performance
  - Race Awarding

Sidebar Notes: