Good (Truck) Driver Incentive Program Requirements/Features Documentation

User Specific Features
Drivers:

- earn points for good driving behavior
- are affiliated with one sponsor company
- use their points to purchase products from their sponsor's catalog
- points are added on a recurring basis for good performance
- can use their points at any time for items in the sponsor's catalog

- Can have multiple sponsors
- Can see how many points have accumulated by sponsor
- Can switch between sponsors
- Can select sponsors to register with
- Can only redeem points by sponsor

Drivers Users:

- can log in
- review/update their user profile and password
- browse products in their sponsor company's catalog
- "purchase" these products using their points
- review their point status
- review the status of their purchases
- cancel/update purchases

Sponsors:

- companies sponsor drivers and have control over which drivers to accept via a driver application process
- sponsor have sponsor users
- sponsor companies maintain a catalog of incentive products (G or PG only)
- the products in the catalog must be selected by a means that allows for automated updating of the price and availability information of each item

- Sponsor type users need the ability to toggle between the sponsor and driver views
    o Must be able to do this without logging out and back in
    o Must be able to perform all the operations that a driver can
        ▪ EXCEPT placing an order from the catalog
        ▪ Should automatically have points available when working in the driver view
- Have no ability to see what other sponsors a driver is associated with
- Can ONLY see and process the drivers for which they are the sponsors
- Can approve or deny a driver sponsorship

- product information must come from a publicly accessible API
- sponsors set the dollar value of the driver points, the default value is $0.01 for each point

Sponsor Users:

- can log in
- review/update their user profile and password
- review/update relevant sponsor information
- review the status of their participating drivers
- approve or reject driver applications
- add/review/update driver information
- add/deduct points from a driver
    - there must be a reason for each point change
- review/update the product catalog
- purchase items on behalf of a driver (using the drivers points)
- create new sponsor users, there can be multiple logins per sponsor
    - sponsor users are self-managed and **do not** go through a registration/application process
- generate the sponsor reports identified below

Sponsor Product Catalog:

- catalogs are unique to the sponsor
- uses an public, online API (eg, eBay, Overstock & ETSY have them) to produce the sponsor specific catalog of incentive products. Product information can include:
    - name
    - availability
    - price (in points)
    - description
    - images
    - other relevant information
- uses the API to obtain the current product price and availability of a product when it is added to the driver's purchase set (aka shopping cart)
- the product catalogs are updated in real-time via the web API
- use the API to build a UI where the driver can select and "purchase" products

Admin Users:

- can log in
- review/update their user profile and password
- review/update
    - any sponsor user
    - any driver user
    - any admin user
- add new admins, drivers and sponsor users
- generate the admin reports identified below

- Must be able to see all the sponsors associated with a driver
- Must be able to assign drivers to multiple sponsors

- Admin type users need the ability to toggle between the admin, sponsor and driver views
    - Must be able to do this without logging out and back in
    - Must be able to perform all the operations that a sponsor can
    - Must be able to perform all the operations that a driver can
        - EXCEPT placing an order from the catalog
        - Should automatically have points available when working in the driver view

Audit Logging:

- The system needs to maintain information on the significant state changes:
    - driver applications: date, sponsor, driver, status (accept/reject), reason
    - point changes: date, sponsor, driver, # of points, reason
    - password changes: date, user, type of change
    - login attempts: date, username, success/failure

Application security:

- Provide and enforce a password complexity system
- Encrypt the user's password at rest
- Encrypt any additional private information that you add to the system
- Protect against SQL injection attacks
- Provide a secure password reset system for the driver, sponsor, and admin users

Reports:

The system must include the following reports:

- Sponsor Report:
    - Driver Point Tracking
        - Select by All Drivers or individual driver
        - Select by Date Range
        - Display driver name, total points, point changes, date of point change, name of sponsor making the point change, reason for point change
    - Audit Log report (restricted to the sponsor's drivers only)
        - Select by Date Range
        - Select by audit log category (show above)
- Admin Reports:
    - Sales by Sponsor
        - Select by All sponsors or individual sponsor
        - Select by Date Range
        - Detailed or Summary views
    - Sales by driver
        - Select by All sponsors or individual sponsor
            - For an individual sponsor
            - Select by All Drivers or individual driver
        - Select by Date Range
        - Detailed or Summary views

- o Invoice, one per sponsor
    - Select by All sponsors or individual sponsor
    - Select by Date Range
    - Summarizes purchases by driver over date range
        - fee generated by driver
    - Total fee due for sponsor
  - o Audit Log reports
    - Select by Date Range
    - Select by All sponsors or individual sponsor
    - Select by audit log category (show above)
- All reports should be downloadable in a CSV file
  format

- The incentive program app must be a responsive and conform to the size of the user's display.
- The system must be deployed to a publicly available server using an AWS server.
- The system must use an AWS hosted database.
- The user interface **cannot** require the user to select their "type" to log in
- The user interface **cannot** require the use of computer-generated id's to operate.

Development Process:

The project will be managed using Agile Project Management via Azure Dev Ops and Git. User stories will be generated by the team to document the requirements for the implementation. These stories will be grouped into features/epics. The features/epics will be managed using branches in the Git repository. The team will project a release roadmap showing the planning implementation of the features/epics. Your team must define and institute a deployment process that every member of the team can use.