**MEF Scholarship Tracker**

This application tracks scholarships administered by the Morris Educational Foundation. The MEF awards scholarships to eligible Morristown High School seniors through an application process. Scholarships, funded by individuals and foundations, are awarded at the Senior Academic Awards Night each June. Currently, we have over 10 scholarships and the list is growing every year.

The application is available to the administrator(ADMIN), board member(TRUSTEE), and scholarship donors(DONOR). Ideally, users would log on with their credentials and be taken to their respective landing page. Currently there is no security, so following is a temporary set up with hardcoded credentials (email, password):

Donors - ([donor@gmail.com](mailto:donor@gmail.com), donor)

Trustee - ([trustee@gmail.com](mailto:trustee@gmail.com), trustee)

Admin - ([admin@gmail.com](mailto:admin@gmail.com), admin)

Donors are taken to their Scholarship Page with detail information on scholarship and list of scholarship recipients. Donors can sort and search through list. If the scholarship is ENDOWED, donor can click on transaction to view transactions for that fund. Sort and search function is available for Transaction list.

Trustees are taken to the Scholarship List Page that lists all current scholarships. Can sort and search the list. Clicking on the scholarship id will take you the scholarship page (See description of Donor views)

Admins are taken to Admin Service Page - can manage Users or Scholarships. Have accessed to:

User list page

Scholarship list page

Winner list page

Transaction list page

Admins can perform CRUD function on all of the above.

PROBLEMS/NEED MORE WORK

1. NO SECURITY - there is no security in the application. One can access any of the pages by typing in the url. No real logon or logout feature. Would like to validate users using credentials in user database.
2. NO VALIDATION - I cannot get any of the validation to work on any of the forms.
3. Unable to implement Scholarship/Winners and Scholarship/Transactions relationship properly. CRUD function on winners and transactions not working properly.
4. Transaction list not quite done - want to show actual balance of the fund based on all the transactions. Amount should also reflect whether it is an inflow or outflow (DEPOSIT or PAYMENT)
5. Have LazyInitializationException. Error goes away if set fetch to eager. But i can’t have it on both Winners and Transactions at the same time. If getting winners, have to take it off from transactions and vice versa.

@OneToMany(cascade = CascadeType.ALL, mappedBy = "scholarship", fetch = FetchType.EAGER, orphanRemoval = true)

// @OneToMany(cascade = CascadeType.ALL, mappedBy = "scholarship" )

private Collection<Winner> winners = new LinkedHashSet<>();

// @OneToMany(cascade = CascadeType.ALL, mappedBy = "scholarship", fetch = FetchType.EAGER, orphanRemoval = true)

@OneToMany(cascade = CascadeType.ALL, mappedBy = "scholarship" )

private Collection<Transaction> transactions = new LinkedHashSet<>();