Changes needed for VITA App V2

Notifications
- If any Detail (see below) on a site changes, send notification
  - to any user with that site on their preferred list
  - if the site is mobile, then notification to all user flagged with role Mobile
- Detail: address, city, state, zip, calendar, capabilities

Emails
- Generated on a new suggestion; sent to list
- Creation of new site; sent to list

Notes:
- Registration has been deprecated; new users will be created in the admin UI
- Moving to one password for each of: Volunteers, SiteCoordinators, Admin
- Season First and Last are moved to system wide settings

API Calls
UpdateSiteStatus(C_VitaSite site, E_ClientSiteStatus newClientSiteStatus, string token) << deprecated

SetSystemPassword(E_ VitaUserRoles role, string password, string token); // new
        Token must have admin rights
        Sets password for all users of type 'role' (only Volunteer, SiteCoordinator, or Admin)

SetNewSuggestionEmailList(List<int> ids, string token) // new
        Ids is a list of users that need to get an email for new notifications
        Token must have admin rights

SetNewSiteEmailList(List<int> ids, string token) // new
        Ids is a list of users that need to get an email for new site creations
        Token must have admin rights

AddWorkLogItem(int Userid, C_WorkLogItem logItem, string token) // new
        Token must have either admin rights, be for the User in UserId, or a SiteCoord for the siteId

UpdateWorkLogItem(int Userid, C_WorkLogItem logItem, string token) // new
        Token must have either admin rights, be for the User in UserId, or a SiteCoord for the siteId

DeleteWorkLogItem(int Userid, C_WorkLogItem logItem, string token) // new
        Token must have either admin rights, be for the User in UserId, or a SiteCoord for the siteId

// all items to do with siteSchedule are deprecated
// all items to do with signUps are deprecated
// all items to do with workShifts are deprecated

SubmitRegistration(username, email, password, phone, E_Certification cert) << deprecated

CreateUser(name, email, phone, List<E_Roles>, certification, token) // new
        Token must be admin
        Create new user

SetSeason(C_YMD first, C_YMD, last, string token) // new

Data Structures
    C_VitaUser
            public int id;
            public string Name;
            public string Email;
            public string Password; << deprecated; don't keep a password per user
            public string Phone;
            public E_Certification Certification;
            public List<C_SignUp> WorkHistoryX; << deprecated; not using signups
            public List<C_SignUp> WorkIntentsX; << deprecated; not using signups
            public List<E_VitaUserRoles> Roles;
            public List<C_Suggestion> Suggestions; << don't need these returned
            public List<C_SiteCoordinated> SitesCoordinated;

            public List<string> PreferredSites; // new; list of sites to notify this user of changes to
            public List<E_NotificationsDesired>; // new; list of notifications this user wants to see
            public List<C_WorkLogItem> WorkLog; // new, list of workitems for this user

    C_VitaSite
            public int id = -1;
            public string Name;
            public string Slug;
            public string Street;
            public string City;
            public string State;

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        public string Zip;
        public string Latitude;
        public string Longitude;
        public string PlaceID;

        public int    PrimaryCoordinatorId   << deprecated;
        public string PrimaryCoordinatorName  << deprecated;
        public int    BackupCoordinatorId   << deprecated;
        public string BackupCoordinatorName  << deprecated;

        public List<int> SiteCoordinators; // new, id's of site coord's for this site
        public List<string> SiteCoordinatorNames; // new, names of site coord's; read only

        public E_ClientSiteStatus ClientStatus = E_ClientSiteStatus.Unknown; << deprecated

        public List<C_CalendarEntry> SiteCalendar;

        public List<C_SignUp> WorkHistoryX;   << deprecated;
        public List<C_SignUp> WorkIntentsX;   << deprecated;

        public C_YMD SeasonFirstDate;   << deprecated; will use a solution wide definition
        public C_YMD SeasonLastDate;    << deprecated;

        public List<E_SiteCapabilities> SiteCapabilities;



    E_VitaUserRoles: SiteCoordinator, Volunteer, Admin, Mobile (new)

    E_NotificationsDesired: None, PreferredSiteChanges, MobileSites

public enum E_SiteCapabilities { DropOff, Express, MFT, InPerson (new) }

C_CalendarEntry
        public int id;
        public int SiteID;
        public C_YMD Date;
        public bool SiteIsOpen;
        public List<C_WorkShift> WorkShifts; << deprecated
        public C_HMS OpenTime; // new
        public C_HMS CloseTime; // new

C_WorkLogItem // new
        Public int id;
        Public int SiteID;
        Public string SiteName; // convenience
        Public C_YMD Date;
        Public double Hours;
```