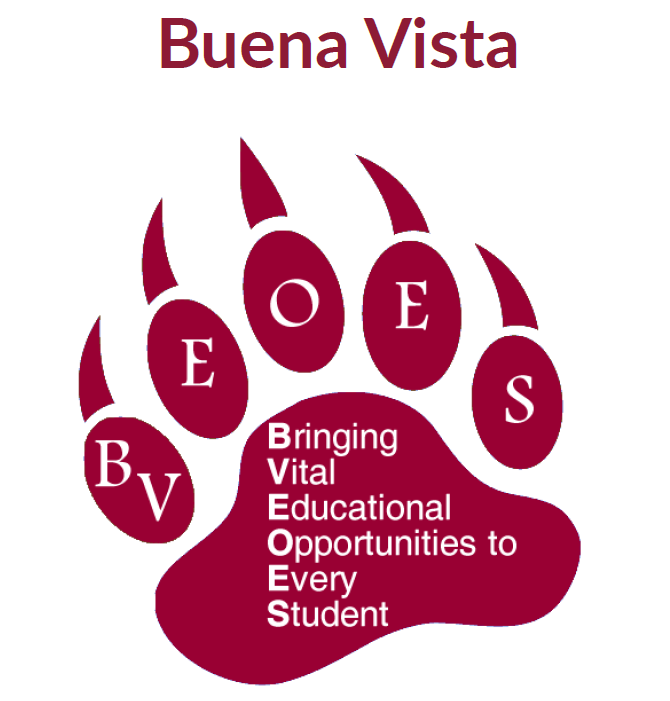
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Solution Requirements V.1

Buena Vista Family Engagement Application

Hackathon 2018

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# Overview

Buena Vista staff discovered that their current communication tools with families was not sufficiently effective, and does not meet the unique needs of their families. This tool will allow Buena Vista teachers and administration to create ongoing dialogues with families via text. Additionally, this tool would protect teachers’ privacy by allowing teachers to do this without the use of their personal cell phone numbers.

Buena Vista and staff from various organizations have been working collectively to develop this program so that it is customized to meet the needs of Buena Vista staff and the unique population of families it serves. We have gathered all needed requirements and plan to execute the program build during HCA’s Hack-A-Thon event on April 12 and 13.

# Assumptions and Dependencies

1. All users will be preloaded into the applicaton by the Administrator
2. User acceptance agreement should either be signed by paper or electronically through this application.

# Functional Requirements

1. User needs the ability to log in
2. User should be directed to a homepage for navigation after log in
3. User should have the ability to create username and password
4. User needs the ability to reset password
5. Security roles
   1. Administrator
   2. Parent
   3. Teacher

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Homepage** | **Message** | **Admin** | **User Setup** |
| Administrator | EA | EA | EA | EA |
| Teacher | EA | EA | RO | EA |
| Parent | EA | EA | NA | EA |

1. Application needs an administrative maintenance page to:
   1. Add/Edit/Inactivate classes
   2. Add/Edit/Inactivate teachers
   3. Add/Edit/Inactivate students
   4. Add/Edit/Inactivate parents
2. User needs the ability to send communication
   1. Teacher should be able to message one or many classes that they are associated with
   2. Teacher should be able to message one or many parents that their student is associated with
   3. Parent should be able to message one or many teachers that they are associated with their child
   4. Administrator should be able to send mass communications to all/any classes

# Future Features

|  |  |
| --- | --- |
| **Priority** | **Feature List** |
| Phase 2 | Calendar |
| Phase 2 | Messaging Hours |
| Phase 2 | Upload file or pictures for sharing |
| Phase 2 | Audit Trail |
| Phase 2 | Reporting |

# Non Functional Requirements

1. **Availability**

**Application should be available 24 hours per day. Standard Metro Nashville public school maintenance schedule.**

1. **Capacit****y**

**<1000 users**

1. **Performance**

**After connection and successful login with valid credentials, the expectation is that the solution will present the in-scope web application within 1 seconds or less.**

1. **Scalability**

**The environment will have the capability to scale to support additional users as needed**

1. **Security**

**Service accounts will be used with the application to communicate to the database. Service will be set up in IIS. Database access is locked down to a service account. All users have a unique identifier.**

1. **Session Timeout**

Must have the ability to support session timeout of 15 minutes or shorter for all user session timeouts.

1. **Account Inactivity**

The application does not track session or user activity.

1. **Role-Based Restrictions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Homepage** | **Message** | **Admin** | **User Setup** |
| Administrator | EA | EA | EA | EA |
| Teacher | EA | EA | RO | EA |
| Parent | EA | EA | NA | EA |

1. **Retention**

7 years

1. **Monitoring**

No after hours support available. Standard school hours apply.

1. **Aplication logging**

Solution must be capable of maintaining audit logs that capture and preserve information. Application will log to local file inside the cloud through the log4net protocal.

1. **Log Back up**

Daily archive 7am

1. **Support**

**A documented support model will be created and maintained for Solution.**

1. **Backup and Restore**

No backups initial implementation but recognized as a future enchancement.