**Key Application Scenarios v2**

1. **A child enters the bus**

As a child gets on the bus, the camera detects that a new person has entered the bus and takes a picture. Then, the person captured is identified using facial recognition. The local system then updates the cloud with information on which child entered which bus, and the parent of the child is sent a notification that their child entered that bus.

1. **A child gets off the bus**

As a child gets off the bus, the camera detects that the child is leaving the bus and takes a picture. Then, the person captured is identified using facial recognition. The local system then updates the cloud with information on which child is leaving which bus, and the parent of the child is sent a notification that their child left the bus.

1. **An admin registers a parent’s child**

An admin signs into their account on the cloud server and navigates to the child registration page. To register a parent’s child, they provide the parent’s name, child’s name and upload a picture (or # of pictures) of the child to the cloud server. The child’s information is stored in the server database, and the facial recognition algorithm is then retrained.

1. **A parent checks on their child**

A parent signs into their account to see a record of if their child got on and off the bus along with what times, along with pictures. If the pictures are wrong, the parent can report that the reporting was false.

1. **A parent deregisters their child (deactivates their monitoring status)**

A parent signs into their account on the cloud server and navigates to their children’s page and clicks the deactivate button. The child’s monitoring status is set to inactive (so they will no longer be tracked/reported).

1. **An admin adds a parent to the system**

An admin logs into their admin account and navigates to the new parent registration page. They then enter the parent’s name, email, phone number, and click a button to register them. The registered parent’s information is added to the database.

1. **An admin removes a parent from the system (deactivates their account)**

An admin logs into their admin account and navigates to the parent database screen. They will then search for the parent in the database through a search field, confirm that the parent is in the database, select the database entry of that parent and set their status to ‘inactive’ in the database.

1. **An admin views all children currently on a bus**

An admin logs into their admin account and navigates to the bus monitoring page. From this page, they can click a bus to see all the children currently on the bus and manually change the status of a child.

1. **A parent is notified of a child entering/exiting the bus via email**

A parent is sent an email, which contains a picture and a notice that the child is getting on or off the bus. The parent can go to the website through the email, taking them to the check-in page. They can then report any incorrect reporting.

1. **An admin registers a camera/local system with the cloud system**