



# Walk-By Active Learning Application

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## Problem

Research has shown that inquiry based learning in college classrooms result in better learning attitudes. Currently, there are not many very effective methods for retrieving information to support this hypothesis. For example, surveys on the subject have resulted in low response rates. Leading to the problem: is there an effective way to accurately get observation data to support the hypothesis that inquiry based learning in college classrooms will result in better learning attitudes?

## Screen Shots

### Register

Username:

Password:

LearningApp

### Submission Form

Classroom  Building

☐ For this class, during the 30 seconds of observation (sight/sound), were students talking with each other for most of that time?

Instructor Sex:  
☒ Male  
☐ Female

## Solution

- A mobile application that allows registered and trained users to submit observations to a remote database
- Allows for a very large database
- Allows for data to be stored for an extended period of time
- Allows for very easy access to data

Currently, the application is designed for observations at the University of New Hampshire. The application will be used as a proposal to the National Science Foundation (NSF) to expand to institutions across the country.

## Field Test

### Dumping data for table observations

user	build	resp date	gen
sja	build1	Yes 4/14/15 3:45 PM	Female
sja	build3	No 4/14/15 3:47 PM	Female
sja	class testing-building	Yes 4/14/15 3:50 PM	Male
sja	Parsons	No 4/16/15 9:50 AM	Male
sja	Parsons	No 4/16/15 9:51 AM	Female
sja	Spaulding	No 4/16/15 9:59 AM	Female
sja	Spaulding	No 4/16/15 10:01 AM	Male
sja	Spaulding	No 4/16/15 10:02 AM	Female
sja	Spaulding	No 4/16/15 10:03 AM	Female
sja	Spaulding	No 4/16/15 10:05 AM	Male
sja	Spaulding	No 4/16/15 10:06 AM	Female
sja	Parsons	Yes 4/16/15 10:14 AM	Female
sja	Parsons	No 4/16/15 10:15 AM	Male
sja	Kingsbury	No 4/16/15 1:21 PM	Male

## Users

1. **Administrator** has the ability to:
  - Register observers
  - Access data from database
  - Login to the application to make observations
2. **Observer** has the ability to (after proper training and registration):
  - Login to the application and submit observations to the database

## Technologies

