



Where software concepts come alive™

## Business Domain

Healthcare

## Project Type

EdTech

# Development of an Entertaining Learning Environment to Help Children With Asthma Cope With the Disease

## Client

Okay with Asthma! is an interactive multimedia project aimed at helping children with asthma overcome their psychological adaptation to the disease. The project was funded by the National Institutes of Health and the National Institute of Nursing Research, and the pilot was tested on children enrolled in Albemarle County Public School System, Virginia.

## Project

Development of educational Flash quizzes for school-aged children with asthma.

## Objective

To provide an entertaining learning environment for school-aged children with asthma and facilitate their psychological adaptation to the disease.

## Team Reinforcement

The Client's specialty was not software development. For the project, Intetics was chosen as a partner with solid experience in Macromedia Flash MX and AS programming, animation and visual object design, compatibility testing, and system requirement development. The Offshore Dedicated Team (ODT®) Model was used for this project development and implementation

# Challenge

The Client aimed to develop a solution to help children with asthma adapt to the disease and overcome the stigma. The project was pilot tested on children enrolled in Albemarle County Public School System, Virginia.

The Client decided to develop an interactive multimedia program to increase knowledge and improve the psychological condition of children with asthma.

Okay with Asthma! had to be different than other asthma education programs because the entire project focused on the importance of school and peers in managing asthma. Besides, the Client wanted to create content that involved programming.

## Quick Facts

- ✓ 2 successfully implemented parts of the project
- ✓ The pilot project is now available online
- ✓ Funded by the National Institutes of Health and the National Institute of Nursing Research

### Technologies

Windows NT/2000 Server / IIS 4.0/5.0 / SQLServer 7.0 / Visual C++ / ASP / Java / HTML / JavaScript / TAPI / Windows Media / VoiceXML

# Solution

## ★ 01

The Flash movie and Flash animated story were successfully implemented. The online project has helped thousands of children adapt to the disease.

## ★ 02

Children with asthma can watch a user-friendly Flash movie about asthma to understand what the disease is and how to cope with it.

## ★ 03

The Flash animated story engages children in an interesting game where they can create their personal story in 30 minutes.

## ★ 04

Intetics' team provided the following services:

- Macromedia Flash MX and AS programming
- Animation and visual object design
- Compatibility testing
- System requirement development

**Introduction**


Okay with Asthma™ is a site for children that has information about asthma through a story. Even if you do not have asthma, you will learn how to help friends that have asthma. After watching the story, you can create your own story and print it.

So, let's get started.

**NEW!** Okay with Asthma v2.0 is released! Please [click here to visit the web site](#).

Questions? Email: [twyatt@utk.edu](mailto:twyatt@utk.edu)

This web site is an interactive and animated site. In order to view the pages, you must install Macromedia's Flash Player. It can be downloaded free of charge at: <http://www.macromedia.com/>.



## Client Reference



*With technology advancements, it is now possible to make a story come alive in ways not possible before except through imagination, play, or with props, screenwriters, and sets. Now, stories can be interactive with multiple media, such as animation and sound, and they can change and evolve based on selections or decisions made by a user.*

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5389666/>

**Drs Wyatt & Li, National Institutes of Health**

## Benefits and Results

- ★ The developed multimedia movie and story were user-friendly and allowed children with asthma to learn about the disease and how to cope with it.
- ★ Intetics' team designed the characters and scenes and programmed the interactive animation based on the Client's script.
- ★ The project was pilot tested on children enrolled in Albemarle County Public School System, Virginia, and it is currently available online for thousands of users.