



12,000

Number of LPRs denied citizenship each year

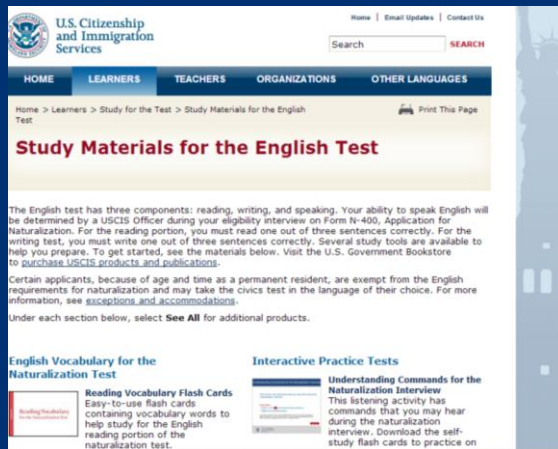


\$8.2m

Money lost by applicants in failed retake attempts

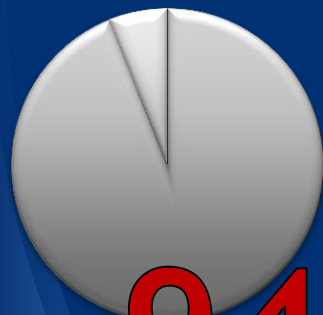
12,000 ×

\$8.2m ×



Current test prep options do not adequately simulate test-taking conditions

- Multiple choice, not free response
- Written instead of verbally-proctored questions
- No context for individualized improvement in learning



94%

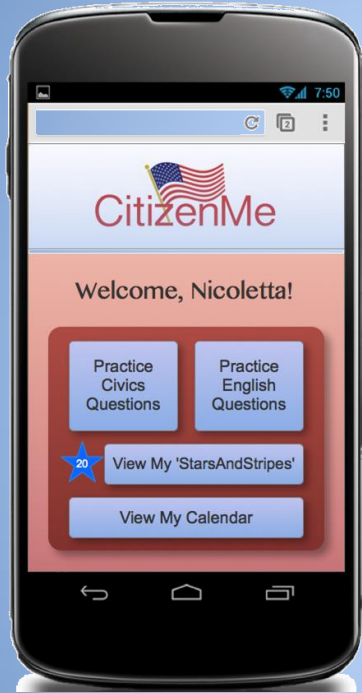
Percentage of Hispanic LPRs for whom the cost of naturalization is a major barrier to applying

94% ×



Server (controller)

- validates user, determines content of practice tests



Database (model)

- stores and manages users and their progress

Website (view)

- user interface

Challenges and Opportunities

- Voice recognition
 - *Problem:* Insufficiently sophisticated processing = user frustration
 - *Solution:* Google Web Speech API, Google Translate API
- A *learning* learning experience
 - *Problem:* Must maximize user learning by emphasizing improvement
 - *Solution:* Statistical approach to improve performance in low-scoring areas
- Funding
 - *Problem:* US Citizenship and Immigration Services is almost entirely fee-supported; funding unlikely to come from federal government
 - *Problem:* Target audience unlikely to be willing to pay for additional services
 - *Solution:* Social justice organizations currently offer financial support for individuals. An investment in a learning system will save money long-term.