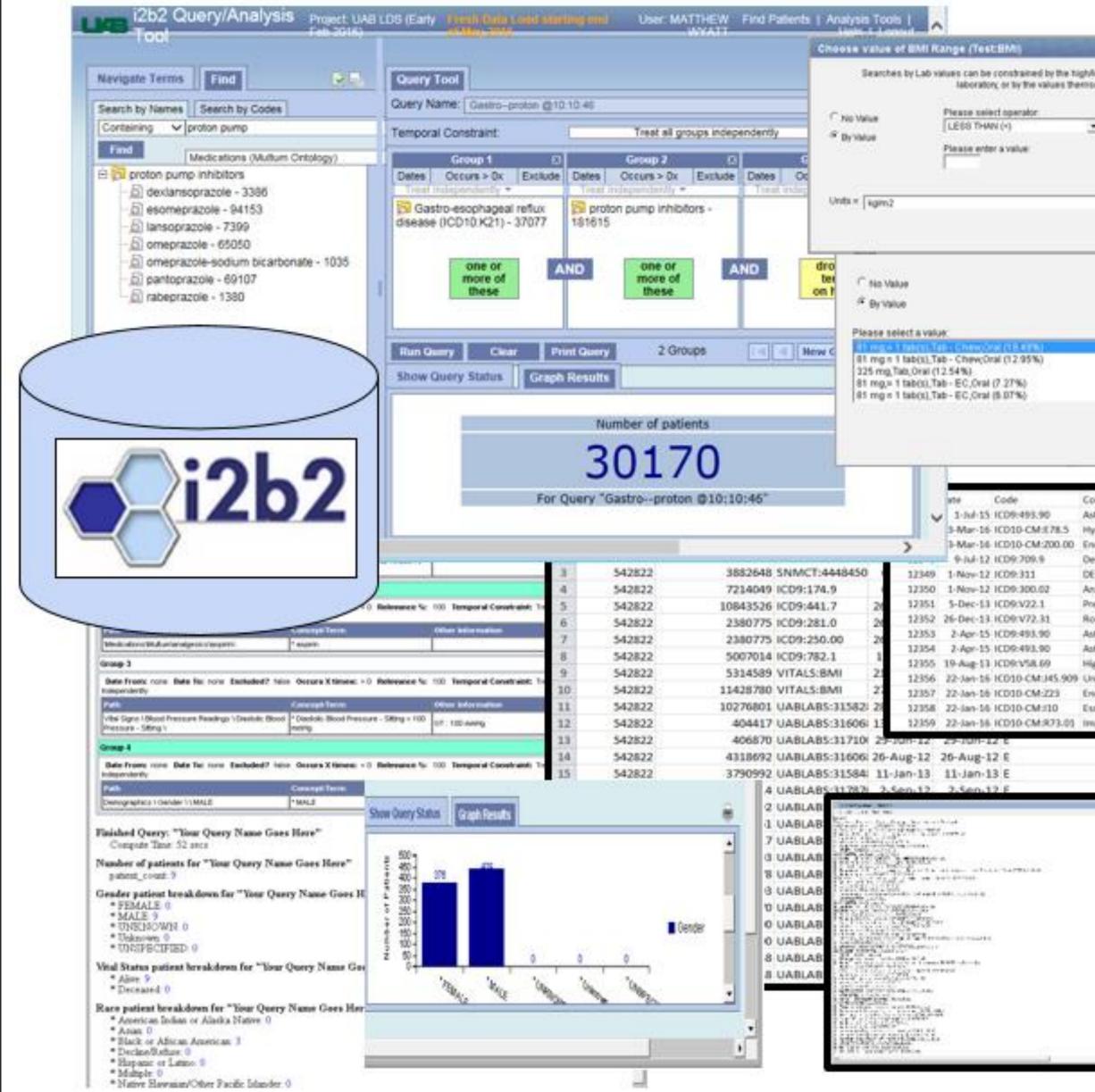
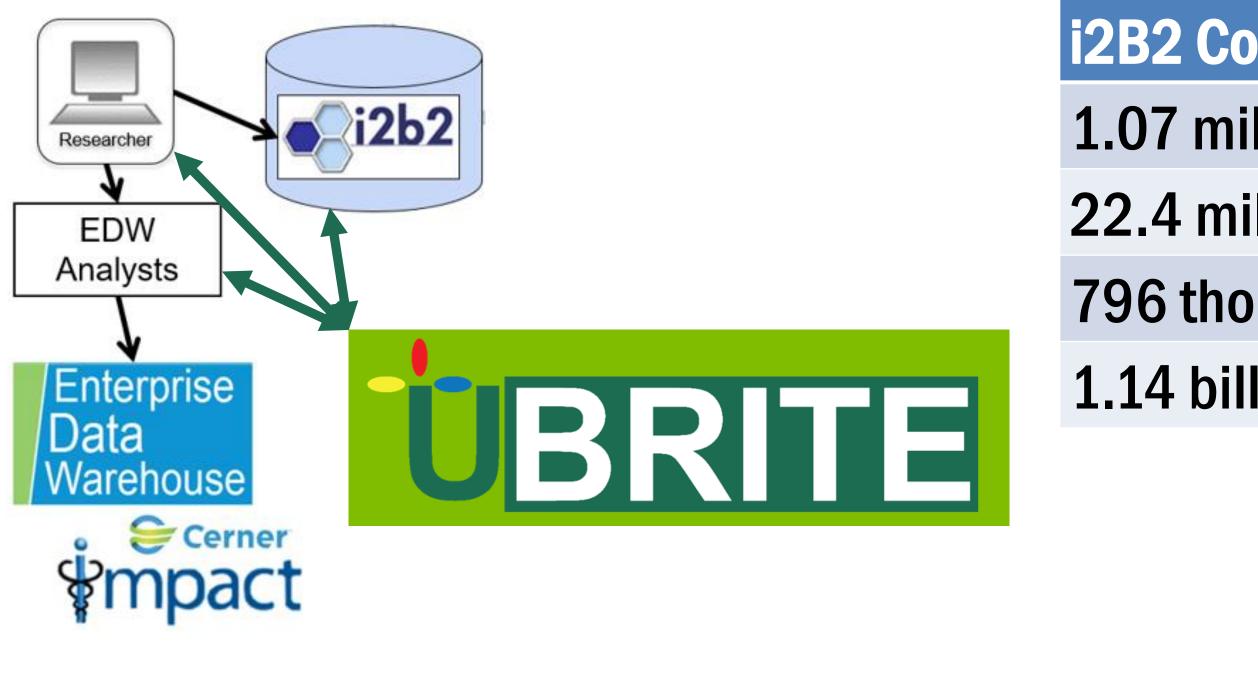
UAB Clinical Research Informatics Clinical Data Extraction, Data Capture, and Gamification for Education

Clinical Data Extraction (i2b2 and the EDW) Collecting & Integrating Patient Reported **Capturing patient reported outcomes in clinical settings throughout** i2b2: Self service access tool for UAB Health System clinical data UAB is possible with several available tools Use your BlazerID to log in at: <u>i2b2-uab.hs.uab.edu</u> One tool is the PRO 1.0 software that allows you to both create new instruments (from the literature) and use PROMIS instruments Aggregate data or detailed, de-identified Patient level data i2b2 Query/Analysis Project UAR (DS (Farty Thesh Bulls) and stratige and the MATTHEW First Patients I Analysis Tools (The instrument library currently includes over > 60 instruments and trained by the highlow flap set by the nectors. Nevigate Terms Find Query Tool aboratory, or by the values thermosiv Query Name: Gastro-proton @10.10.4 Search by Names Search by Codes has been used in 11 organizations (9 clinics at UAB, 2 external orgs) Containing V proton pump sat all groups independent ^{(F} Dy'shiue Find Please enter a value Medications (Multurn Ontology) a proton pump inhibitors dexlansoprazole - 338 esomeprazole - 94153 Gastro-esophageal reflux proton pump inhibitors OK Cancel Isease (ICD10:K21) - 37077 ansoprazole - 7399 omeprazole - 6505i omeprazole-sodium bicarbonate - 103 omens Health Tracking List 🚻 Signed Document Worklist 📑 PAL 👪 Multi-Patient Task List 😅 Staff Assignment 🌇 PI more of these more of these pantoprazole - 69107 rabeprazole - 1380 Patient Reported Outcor Run Query Clear Print Query 2 Groups Hew I mg n 1 lab(x).Tab - ChevcOral (12.95% A B - B - 4 100% - O B 🖉 Show Query Status Graph Result 325 mg Tab, Oral (12.54%) 81 mg,= 1 tab(s),Tab - EC,Oral (7.27 nt Reported Outcomes 85 mg n 1 tab(x), Tab - EC ,Oral () CK Cancel Review Of Symptom 30170 **i2b2** 02/01/2019 GIGNS AND SYMPTOM Signs & Symptoms 1917 Clinic 1-Jul-15 ICD9:493.90 11/02/2018 Bothers some Signs & Symptom 1917 Clink Bothers a little: 3882648 SNMCT:444843 Bothers a little: 08/31/2018 542822 7214049 ICD9:174 Signs & Symptom 542822 10843526 ICD9:441 warete %: 000 Temporal Constraint Do not have this symptom 1917 Clink 2380775 ICD9:281.4 2380775 ICD9:250.00 05/29/201 5007014 ICD9:782.1 Signs & Symptom 1917 Clini 5314589 VITALS:BMI 11428780 VITALS:8MI 08/15/2017 0276801 UABLABS:3 Signs & Symptom OBACCO USE (mg = 100 of : 120 www.g. 1917-Clinic Do you smoke tobacco? Ye If yes, how many cigarettes do 606: 26-Aug-12 26-Aug-12 E 48 mg/dL 05/30/2017 de Froers rome Date Tai rome Eacloded? Intro Oceans X femeral Signs & Symptom 65 Units/L 11-Jan-13 11-Jan-13 E 1917 Clinic ow Ourry Status Graph Results EPRESSION (PHQ-2) 01/25/201 Signs & Symptom inished Query: "Your Query Name Goes Here 1917 Clinic Compute Time: 52 secs over the past two weeks, how fumber of patients for "Your Query Name Goes Her 11/08/2016 ittle interest or pleasure in do plahinst colast Signs & Symptom eeling down, depressed, or hop lender patient breakdown far "Your Oam 1917 Clinic epresssion Scoring Interpreta ital Status patient breakdown for "Your Query Name Go re patient breakdown for "Your Query Name G eperican Indian or Allacka Nativ **Sample PRO integration into Cerner – coming 2019!** lack or African American Hapana: or Latino. 1 * Native Hawaian/Other Facilic Islander. i2b2: De-identified Feasibility and Preliminary Data Integration of PRO Data Collection Future vision for integrating PRO data capture through the mHealth Fully identified clinical data (with IRB approval) **Assessment Service (MAS) at UAB** Analyst supported clinical dataset extraction Integration with U-BRITE for clinical and genomic data analysis CERNER PRO 2.0 Portal i2B2 Content Researcher > i2b2 1.07 million patients PROs EHR Orders MRN MAS 22.4 million visits EDW PROnw Open mHealth mhealth Shimmer ssessment 796 thousand concepts service mPages Results PROMIS 1.14 billion facts BRIE MAS MAS Dependencies Consumer Email: <u>aguzman@uabmc.edu</u> Email: i2b2support@uabmc.edu www.uab.edu/ccts CENTER FOR CLINICAL ccts@uab.edu AND TRANSLATIONAL SCIENCE 205.934.7442

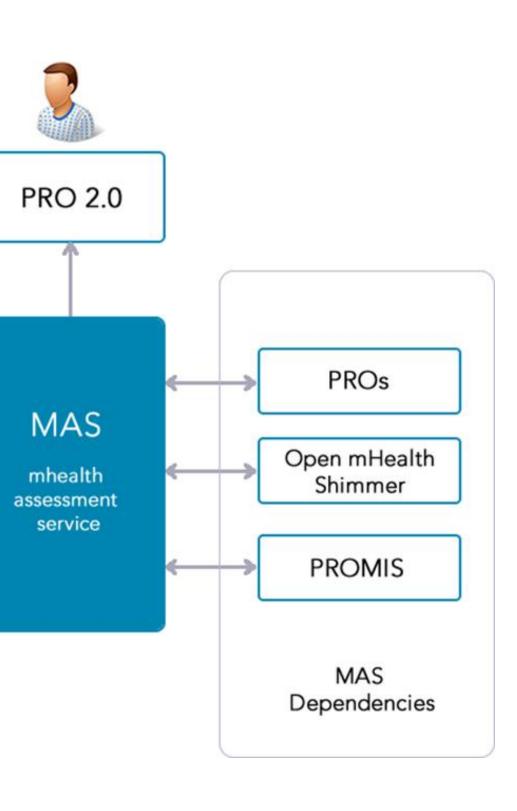






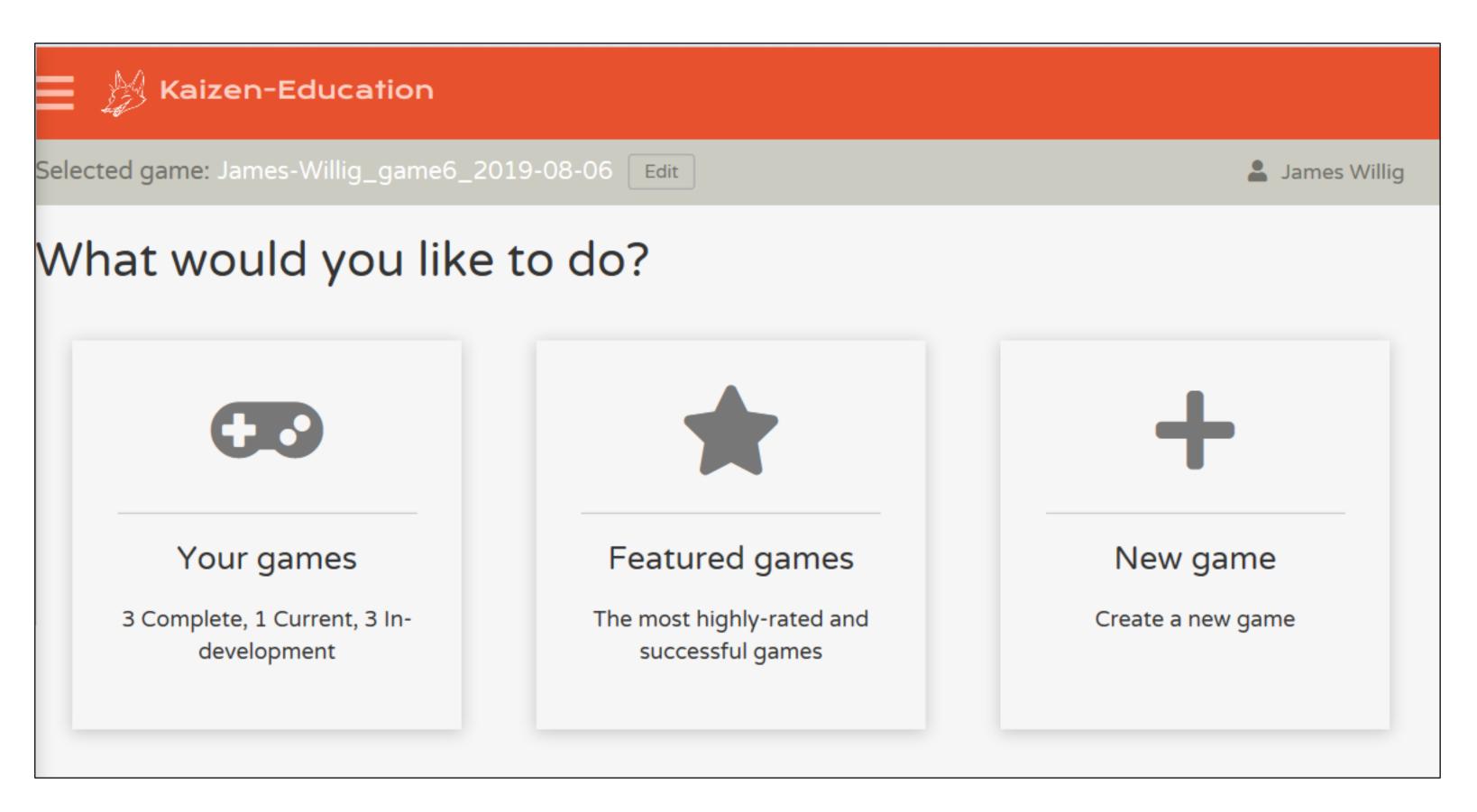
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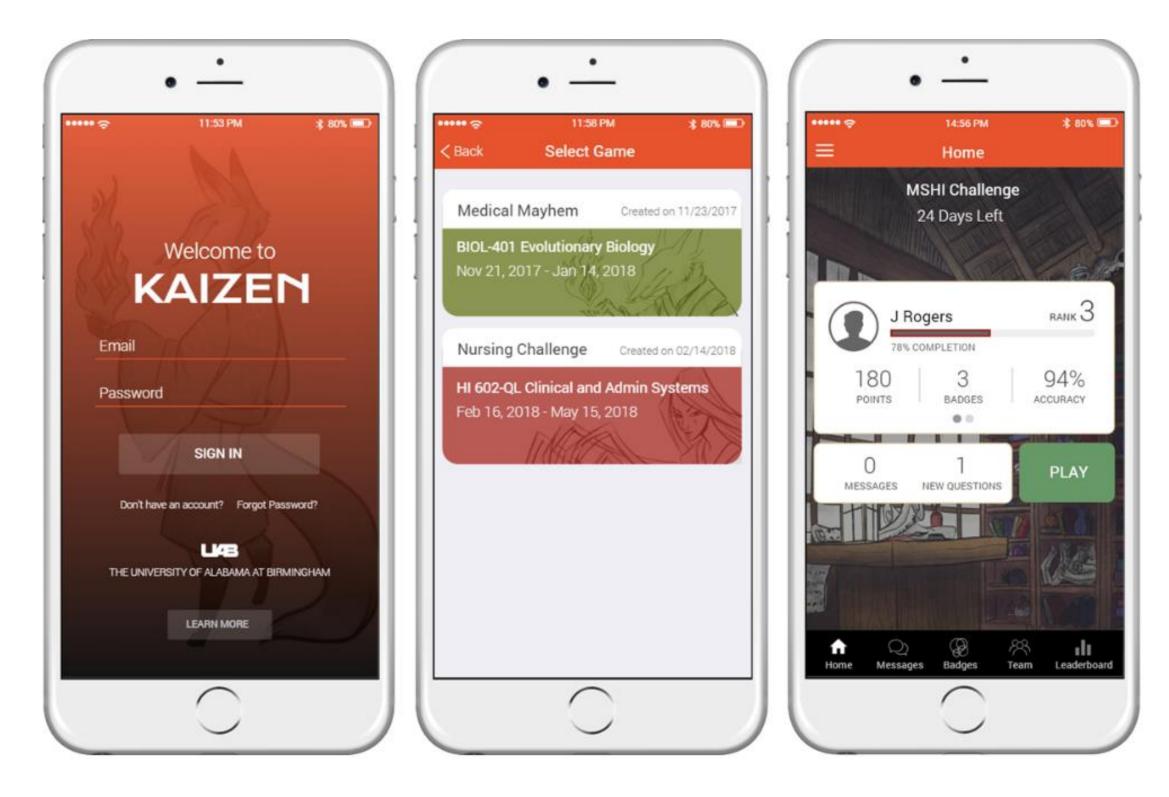




Gamification & Education: Kaizen-Education

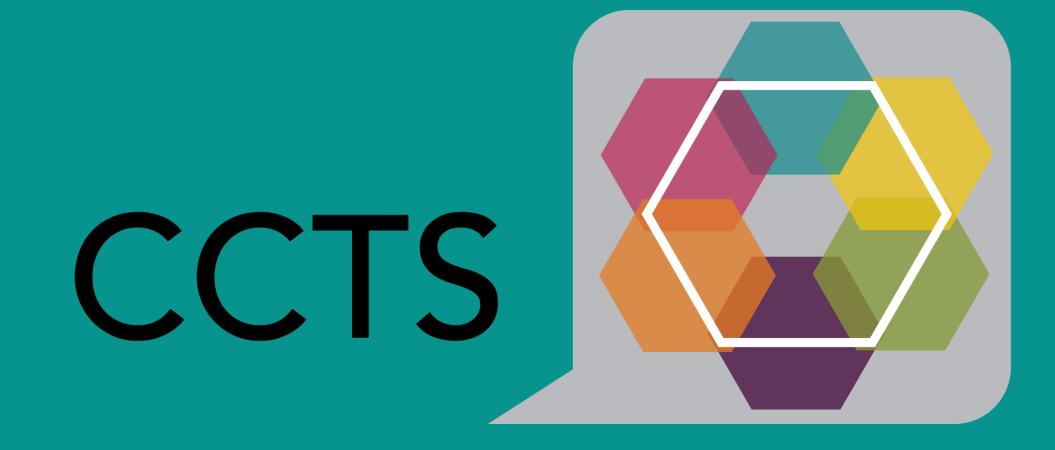
- Two applications!











Developed by CCTS & the Research and Informatics Service Center

Platform for enhancing learner engagement using principles of gamification: leaderboards, badges, etc.

Game Manager tools allows educators to create games App available in Google and iOS app stores allows users to play educational games

• Used in collaboration with various schools (Nursing, Public Health, Medicine, etc.) and national collaborations (CCTS R2T Training)

Kaizen-Education Game Manager Tools

Kaizen-Education App

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