# City University of New York - Hunter College Digital Product Development - Spring 2021

#### Course Information:

CSCI 39544: Digital Product Development

Remote - Classes will be held via Zoom (Cameras are required)

https://us02web.zoom.us/j/87846607131

Meeting ID: 878 4660 7131 Wednesdays: 5:35-8:15PM

#### **Contact:**

Nikolai Chowdhury, Adjunct Lecturer Department of Computer Science ic1028@hunter.cuny.edu

# **Course Objectives & Learning Outcomes:**

This course provides a cross disciplinary and hands on approach to understand what is demanded by industry leading digital experiences. Today's experiences are multi-platform and need to be built with the experience of the user front and center. We'll dive into the different touch-points of deploying products (web, mobile, cross-channel), how to leverage APIs and API-Led development to speed up time to market and value, what to measure and how to track the right metrics for your product, and how to launch and go-to-market. With this course, students will come away prepared and informed with what it takes to transform an idea from a concept, to a scalable technology product and bring it to market.

# Upon successful completion of this course, students will be able to:

- Understand the role of a Product Manager and the process in which digital products are conceptualized, built, deployed and managed in modern technology companies
- Have hands on experience working through the different stages of the Product Development Lifecycle
- Build models, wireframes, and feature requirement documents (lo-fi & code)
- Conduct user research and source ideas for new products or product improvements
- Quickly prototype concepts and ideas
- Have experience presenting a concept to an audience

## Weekly Schedule of Topics to be Covered:

This schedule is subject to change. Students are expected to come to class prepared and ready to participate in class discussions and group projects. The associated chapters and reading materials should be read ahead of time.

Each class will begin with a brief discussion of notable product releases and current events that took place during the previous week. Each student is encouraged to bring in an example of a product or app release they identified as well from the previous week. Students will learn about the reliable sources in the news that track these events.

Weeks 1-3: What makes a "Winning Digital Experience" highlights of best in class mobile and web applications. Overview of platform expectations and best practices.

Weeks 4-6: Product Development Process and planning for your product. How to leverage APIs and API ecosystems to compose applications.

Weeks 7-8: Prototyping & Designing the most effective user flows

Weeks 9-11: Metrics & Impactful Analytics (what to track, why, and how to portray)

Weeks 12-14: Go-To-Market, getting to Launch

#### **Class Dates:**

Week #1: February 3 - First Class (Introduction to Product)

Week #2: February 10 - What makes a "Winning Digital Experience" - Real World

Week #3: February 17 - Best Practices in Product Management

Week #4: February 24 - Product Development Process

Week #5: March 3 - Planning for your product

Week #6: March 10 - Leveraging APIs and API ecosystems to accelerate applications

Week #7: March 17 - Introduction to Prototyping

Week #8: March 24 - User Stories & Designing effective user flows

No Class: March 31 - Spring Recess

Week #9: April 7 - Introduction to Metrics

Week #10: April 14 - Impactful Analytics (what to track, why, and how to portray)

Week #11: April 21 - Building measurement frameworks

Week #12: April 28 - Go To Market

Week #13: May 5 - Hands on Product Development

Week #14: May 12 - Hands on Product Development (continued)

Final Exam / Presentations: May 19 (To Be Confirmed)

## Readings:

Accompanying each week in the syllabus is a list of readings. All of the books/links to publications/links to resources listed below are required reading:

- The Lean Startup 9780307887894
- Business Model Generation : A Handbook for Visionaries, Game Changers, and Challengers — 9780470876411
- Joel on Software And on Diverse and Occasionally Related Matters that Will Prove of Interest to Software Developers, Designers, and Managers, and to T — 9781590593899

CUNY Hunter Online Bookstore (link)

Additional Readings to be assigned weekly. This to be updated before Week 3.

## **Class Deliverables & Assignments:**

This class is discussion, individual and group work focused. We will have a series of lecture materials and check-in's for retention of material.

- Final presentations which should have a working app prototype or at least a fleshed out demo / concept
- 2. Mid cycle requirements / diagrams built (Assignments)
- 3. Tests & Quizzes along the way to test retention.
- 4. Discussion Forum Posts regarding assigned readings

# **Grading Policy:**

- 10% 2 quizzes
- 20% Discussion Forum:
  - At least 10 threads in the Discussion Forums (any forum of your choosing) and two threads must be at least responses to another student's post
  - Participation in 2 Group Discussions
- 20% 2 Assignments
- 40% Final Exam / Presentation
- 10% Participation, in-class group work, attendance

#### Communication:

Preferred method to contact instructor for urgent / non-urgent matters: email Secondary method to contact instructor for urgent / non-urgent matters: text/call Response time to outreach for urgent / non-urgent matters: within 1 day

## **Academic Integrity/Honesty Policy:**

Hunter College Policy on Academic Integrity (required on all syllabi by Senate resolution) "Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

## **ADA Policy:**

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical, and/or Learning) consult the Office of AccessABILITY, located in Room E1214B, to secure necessary academic accommodations. For further information and assistance, please call: (212) 772- 4857 or (212) 650-3230.

## **Hunter College Policy on Sexual Misconduct:**

In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.

- a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444).
- b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

#### **CUNY Policy on Sexual Misconduct Link:**

http://www.cuny.edu/about/administration/offices/la/Policy-on-SexualMisconduct-12-1-14-with-links.pdf

# **Syllabus Change Policy:**

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