Engage - WIT Hackathon

We, at Microsoft, understand the unique challenges you face. No matter where you are in your professional development, or what technology-related field you're in, Microsoft offers a broad range of support programs and resources to advance women in technology from the classroom to the boardroom.

Schedule & Process Flow

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Date	Time	Action	Remarks
10th Feb	Schedule shared on email with you	Brain-storming session with Mentors	Session is optional for Mentees. Led by Mentees.
11th Feb		1*1 sync with Mentors (30 mins each)	Mandatory session
12th Feb		Code URL Submission	Process of submission mentioned on website. Post 10 pm no submissions will be accepted.
14th/15th/16th Feb		Final Discussion with Mentors(45 mins each)	Mandatory discussion

Based on Mentor evaluations you may have further rounds of interviews post 17th Feb.

Common Queries

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- Contact UR team for all queries on the process flow. Please check the FAQs for answers to your queries. If your question is still not answered, please write to us on university@microsoft.com with the subject line "Microsoft Engage WIT Hackathon".

- Let the UR team know if you are not joining your calls before the scheduled time.

- You can use any language to create the web-based application

- Can I change my topic mid week – Yes, you can but just keep your mentor informed about the change.

- Select any one theme from the 5 options mentioned on the website.

- Submit code on GitHub – share the URL with us

Hackathon Highlights

- Hackathon website – https://microsoft.acehacker.com/wit/

- Register & Choose a Challenge

    - Choose a challenge from 5 challenges/themes here

    - Deadline to register was 10AM on Feb 9th

- Talk to mentors from Microsoft

    - Connect sessions have been organized for you with mentors who work at Microsoft

    - Feel free to ask any question to them ☺

- Submit your functional prototype code on GitHub

    - Feb 12th 2021

    - Evaluations on Feb 15th and 16th

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Project Details

- Functional prototype of a Web based Applications
- Individual registration – 1 project per participant
- Choose a theme/challenge among the 5 challenges below
  - Women Safety App
  - Women "health and fitness 360" app
  - Job search app
  - The Family App
  - Personal Assistant to the working professional
- Only one theme/challenge
  - Submit on only one theme/challenge
  - Inform your mentor about the challenge you are picking
  - You can switch your challenge before you submit, but please let your mentor know

Judging criteria – Code Submission

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- Scoring from 0 - 10

- Four Criteria of evaluation

  - Uniqueness

    - Is your idea novel, impressive and perhaps better than the ones mentioned before?

  - Technical Achievement

    - How complete and clean is your submission?

      - Architecture design
      - Pitch Deck
      - Flowcharts
      - And… so …on

  - Code quality

    - Code smells should be minimal

    - Minimal Size

    - Readability and complexity

  - Relevance to theme

    - Closeness to the challenge theme

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Some developer guidelines

- Keep it Simple
  - Try to develop few but complete features over many incomplete feature
- Build iteratively
  - CABTAB – Code a bit Test a bit
  - Break problem into smaller problems and tackle them one by one
- Proper naming of variables – Self documented code
- Modularity and reusability are prime factors
- Code should be easily testable
  - Use pure functions
  - Write unit tests – they also serve as good documentation and build confidence

- Do not hesitate to seek guidance from your mentors ☺

Demo/Deployment

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- Focus on your idea and simplicity
  - The idea is most important in any hackathon
  - If time permits maybe a pitch document/slides will help so that the idea is heard
- For front end can use popular frameworks/libraries for faster development
  - Work with that framework which you are more comfortable with
  - Some popular front-end frameworks may be React/Angular
- For backend follow this rule
  - Demo data locally shipped with code – Flag in the front end perhaps
  - Focus is on how neat and reusable your APIs will be
  - Use Azure free account ☺
- Use well known Machine learning services if need be
  - Azure free account does provide Azure cognitive services like LUIS

Challenge 1: Women Safety App

- Designed to provide security to women in different scenarios.

- Can do safety actions like
  - Guide path to safety
  - Make SOS calls
  - Allow tracking of the person
  - Gesture initiated security actions
  - Some threat mitigation.

Challenge 2:
Women "health and fitness 360" app

- One stop health & fitness app for women through most stages of life

- Data can include
  - Regular fitness data
  - Energy Indicator
  - Health monitors
  - Guides through women health cycles

- App can derive insights and suggestions based on data
  - Help through Specific health situations
  - Help through tracking and maintaining rhythm of medication
  - Suggest or prompt for medical tests.

- Data is private and sensitive
  - Focus on security

Challenge 4: The Family App

- Designed to keep your family commitments, responsibilities and emotional connect going

- Can help with the following
  - Important dates in family
  - Reminders for family commitments
  - Virtual "Joint Family"
  - Family conversations
  - Insightful suggestions, like a cousin in the same café/airport as you are

Challenge 5:
Personal Assistant to Working Professional

- Dedicated tireless PA for the busiest working professional

- Bringing order to the daily routine

- Niceties can be use of different cognitive facilities.

What if I need any help

- Stage 1: FAQs in the website – https://microsoft.acehacker.com/wit/#faqs

- Stage 2: Mentors assigned to you

- Stage 3: Send a mail to Microsoft University Recruiting team
  - university@microsoft.com
  - Subject line to be "**Microsoft Engage WIT Hackathon**" to help us answer you faster

THANK YOU