

# B.R.A.D. Project Plan — Bot to Report Abusive Domains

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## Methodology: Agile (5 Sprints)

Each sprint includes planning, development, testing, documentation updates, and a sprint review/retrospective.

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## Sprint 1: Core Setup & Initial Requirements

**Duration:** 1 – 28 May

**Demo:** Capstone Demo 1 (28 May)

### Objectives

- Build the **User Submission Portal** for submitting suspicious URLs
- Allow the reporter to view forensic reports
- Allow the investigator to analyse forensic reports

### Deliverables

- Web form to submit domains
  - Multiple distinct dashboards to view and interact with the different use cases.
  - `README.md`, feature list, requirements, and sprint plan
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## Sprint 2: Bot Integration & Forensic Data Collection

**Duration:** 29 May – 25 June

**Demo:** Capstone Demo 2 (25 June)

### Objectives

- Develop **containerized scraping bot** to visit submitted domains safely
- Extract content and collect **forensic metadata** (IP, WHOIS, SSL, etc.)
- Store collected data securely
- Expand documentation with bot architecture and safety model

### Deliverables

- Docker-based scraper that can visit and extract data
  - Metadata collection (basic WHOIS, IP, domain details)
  - Markdown documentation for bot internals
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## Sprint 3: AI Risk Analysis & Evidence Upload

**Duration:** 26 June – 20 August

**Demo:** Capstone Demo 3 (20 August)

## Objectives

- Integrate **AI model** to score domain risk
- Enable **user evidence uploads** (screenshots, logs)
- Improve threat classification workflow
- Store all reports in a structured format

## Deliverables

- Working AI model integration
  - Evidence upload interface and backend
  - Sample end-to-end report for one domain
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## Sprint 4: Investigator Dashboard & Threat Intelligence

**Duration:** 21 August – 28 September

**Demo:** Capstone Demo 4 (29–30 September)

### Objectives

- Build the **Investigator Dashboard** to view/report/manage submissions
- Integrate **threat intelligence APIs** (e.g. VirusTotal)
- Add **automated WHOIS/DNS** fetching
- Begin **real-time alerting** for critical domains

### Deliverables

- Usable dashboard UI (basic filters/search)
  - Integration with external threat feeds
  - Auto-fetched WHOIS/DNS info in report view
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## Sprint 5: Final Features, Polish & Project Day

**Duration:** 1 – 24 October

**Event: Project Day** (24 October)

### Objectives

- Implement **historical tracking** for repeated abuse
- Add **multi-language support** (optional NLP integration)
- Apply security improvements: RBAC, API limits, immutable logs
- Prepare for final demo and handover

### Deliverables

- Complete domain lifecycle tracking
  - Final bugfixes and UI polish
  - Project ready for public showcase
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# Capstone Milestones

Date	Event Description
28 May	Capstone <b>Demo 1</b> + Documentation Evaluations
25 June	Capstone <b>Demo 2</b> + Documentation Evaluations
20 August	Capstone <b>Demo 3</b> + Documentation Evaluations
29–30 September	Capstone <b>Demo 4 – Exam Demo</b> with COS 301 Project Committee
24 October	<b>Project Day</b> – Final Showcase